UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

Ms. Deborah A. S. Hoag, P.E.
Environmental Division Manager
City of Reading
815 Washington Street
Reading, Pennsylvania 19601-3690

JAN 0 3 2013

Re: Pretreatment Program
NPDES No. PA0026549

Dear Ms. Hoag:

Thank you for the submission of the City's annual pretreatment report for calendar year 2011. Please note that the City's NPDES permit requires that the report be submitted by March 31 of each year. However, the City's annual report for calendar year 2011 was submitted on July 3, 2012, which is more than three months late. Failure to submit the report by March 31 of each year is a violation of the City's NPDES permit and could subject the City to enforcement including penalties.

Thank you also for summarizing the influent, effluent, and sludge monitoring data on the spreadsheet provided by EPA. Use of the spreadsheet helps significantly with our processing of the data. For future reports, it would be helpful if all of the influent and effluent mercury data were included in the spreadsheet. Since the City typically conducts more than monthly monitoring for mercury, additional columns must be added to the spreadsheet to include all of the City's mercury data. The instructions sent with the spreadsheet should provide an explanation of how to add columns for the additional data, although if you need additional assistance please let me know. In addition, if more than one sample for the same sample point is collected on the same date, the results of the sampling for that date should be averaged and the average value entered in the spreadsheet. The instructions sent with the spreadsheet include a specific explanation on how to do this where some or all of the data is reported as non-detectable.

The City's report indicates that it assessed a significant number of penalties against the users for violations that occurred during the year. As occurs with many POTWs, not all of the penalties were paid as of the date of the report. In general, where not all of the assessed penalties were paid at the time of the report, follow-up information needs to be provided to show whether these penalties were eventually paid. Providing this update with the subsequent annual report is sufficient, although it can also be provided with any response to the EPA comments on the report. To date I have not received an update on the unpaid penalties listed in the City's annual reports for calendar years 2008, 2009, 2010, and 2011. Enclosed for your use is a set of tables showing the penalties that were listed as not having been paid for each of these years. Please provide an update of the status of payment of these penalties.

In reviewing the 2011 annual reports, EPA has continued the program in which specific pretreatment implementation items for each approved program are being tracked. For calendar year 2011, the two measures previously used to track NPDES compliance have been combined into a single measure. In addition, a measure has been added to track POTW compliance with permit schedules for local limits reevaluation. Enclosed is a sheet that includes the data that I have collected for the Reading

pretreatment program for calendar year 2011, as well as a sheet that provides some additional information on the categories listed. An "Instruction Sheet" that provides more detail on each measure (with any changes from the 2010 measures indicated in bold) is also enclosed. Generally, the category ratings are not directly related to compliance, but "Category 1" would be considered the best rating for each measure. Finally, a summary of all of the POTW data collected so far for calendar year 2010 has been included to allow you to compare your program to the ratings achieved by POTWs in calendar year 2010.

Measure 1 (influent data) is listed in category 2 for mercury and zinc, and in category 3 for molybdenum. These exceedances continue the pattern of exceedances that have occurred over the last several years (see enclosed *List of Exceedances* report), and the City will need to take steps to address these exceedances. The City's annual report should include a description of steps taken to address the exceedances.

Measure 3 (sludge data) is listed in category 2 for molybdenum. Again, these exceedances continue a pattern of exceedances that have occurred over several years, and the City should take steps to address these exceedances as well.

Measure 4 (data/local limits) is listed in category 2 for mercury and zinc and in category 3 for molybdenum. For mercury and zinc, the influent exceedances without corresponding effluent or sludge exceedances suggest that the influent goals for these pollutants, and therefore potentially the local limits, are more stringent than they need to be. For mercury, the City's NPDES limit was relaxed in 2004 and the local limit evaluation based on this limit never updated to reflect the new limit. This is likely at least partly the cause of the influent goal exceedances for mercury. Although there has not been a revision to an NPDES limit for zinc, a reevaluation of the headworks analysis to adjust the influent goal is warranted based on the influent exceedances. For molybdenum, the corresponding influent and sludge exceedances suggest that the City's treatment plant is accepting too much of this pollutant. Since the City's currently approved local limits are almost 15 years old, it is possible that they are not stringent enough to adequately control molybdenum discharges. Although the City's annual report indicates that it believes that the elevated levels of molybdenum are the result of cooling tower chemicals used in the summer months, there is no description of actions by the City to identify specific users within the system. One place to start may be a comparison of the monitoring data at the two influent sample points to determine if there might be a more confined location where the higher levels of molybdenum originate.

Measures 7 and 8 (SNC rates) are listed in category 3 and measures 10 and 11 (also SNC rates) are listed in category 2. The City's report indicates that it has assessed and collected over $100,000 in penalties for violations that occurred in calendar year 2011. While the user significant noncompliance rates have come down in the last several years, the rates are still relatively high, and many of the users that had significant noncompliance violations in calendar year 2011 also had significant noncompliance violations in calendar years 2010 and 2009. It is especially important that the City address these users that have been in significant noncompliance for long periods of time, and it is probably appropriate for the City to make greater use of compliance schedules as part of its enforcement actions with significantly higher penalties for failure to return to and maintain compliance after the schedule is completed.

Measure 16 (local limits) is listed in category 2. The City submitted a reevaluation of its local limits on May 5, 2006. I provided comments on that reevaluation on June 28, 2006 but the City never responded to those comments. Addressing those comments and finalizing the limits evaluation could address the influent exceedances discussed above and help ensure that the City's local limits are protective of the treatment plant and its discharges.

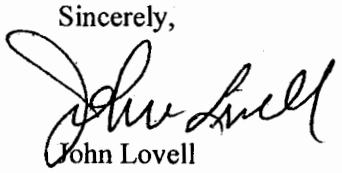
Measure 18 (streamlining) is listed in category 3. Although the City conducted an assessment of its current legal authority and determined that revisions are necessary to comply with the requirements of EPA's October 2005 amendments to the General Pretreatment Regulations, to date no revised ordinance has been submitted. The City must revise its ordinance quickly to ensure that it has sufficient authority to implement its pretreatment program as required. As suggested in the past, it is recommended that the City provide a draft of the ordinance revisions prior to adoption. Note that if the City is unable to implement required elements of its pretreatment program because it failed to update its legal authority, the failure to implement the program would still be considered a violation of the City's NPDES permit.

Measure 19 (overall rating) is listed in category 3 with a rating of 74.1. This is the same as the City's rating for calendar year 2010, and is well below the average rating received by POTWs in 2010 (85.9). Addressing the local limits and streamlining issues discussed above would help increase the City's rating, but to significantly improve the rating the City will need to address the high significant noncompliance rates along with the influent and sludge exceedances.

In a related matter, I conducted an audit of the City's pretreatment program in August 2005. While the City has addressed a number of the required actions from that audit, it has not completely addressed all of the required actions. Enclosed is a table that shows my understanding of the actions taken by the City to address these issues. Please provide additional information on the City's efforts to address the remaining issues that are shown as not having been completed.

Please provide a response to the issues raised above. If you have any questions regarding this matter, please contact me at 215-814-5790.

Sincerely,



John Lovell
Pretreatment Coordinator
NPDES Permits and Enforcement (3WP41)
Water Protection Division

Enclosures

cc: Maria Bebenek, PADEP Southcentral Region (w/out enclosures)
Ron Furlan, PADEP Central Office (w/out enclosures)

CITY OF READING, PENNSYLVANIA

PUBLIC WORKS
503 N. 6TH STREET
READING, PA 19601
(610) 655-6121

DEBORAH A. S. HOAG
UTILITIES DIVISION MANGER

July 3, 2012

Mr. John Lovell (3WP41)
Office of Municipal Assistance
US Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia PA 19103-2029

Dear Mr. Lovell:

As required by the City of Reading's NPDES Permit Number PA0026549, the City is to submit an annual report covering developments of the City's Pretreatment Program. Enclosed please find the annual report covering the period of January 1, 2011 to December 31, 2011.

Please do not hesitate to contact me at 610-655-6121 should you have any questions on the report.

Thank you for your attention.

Sincerely,

Deborah A. S. Hoag, PE
Utilities Division Manger

DASH/ts
Enclosure
C: Charles M. Jones, P.E., Director of Public Works
Jacqueline C. Hendricks, Environmental Program Coordinator
File

CITY OF READING

ANNUAL PRETREATMENT REPORT

USPS
2305 0270 0001
7926 6699

REPORTING YEAR 2011

PRETREATMENT PERFORMANCE SUMMARY

I. General Information

Control Authority Name: City of Reading WWTP
Address: 815 Washington Street
City : Reading State : PA Zip : 19601-3690
Contact Person: Deborah A.S. Hoag, P.E.
Contact Title: Utilities Division Manager
Contact Telephone Number: (610) 655-6121
E-mail address: Deborah.Hoag@readingpa.org
NPDES Nos: PA 0026549
Permit Issuance Date: 05/01/01 Expiration Date: 05/01/06
Reporting Period: 1/1/11 to 12/31/11
Total Categorical IUs (CIUs): 10
Total "Middle Tier" CIUs (MTCIUs): 0
Total Nonsignificant CIUs (NSCIUs): 0
Total Significant Noncategorical IUs (SNIUs): 25

II. Compliance Monitoring Program

1. No. of SIUs with Current Control Documents.....35
2. No. of SIU Facilities Inspected..... 35
3. No. of SIU Facilities Sampled..... 35
4. No. of SIUs Submitting Self-Monitoring Reports..... 34

III. Significant Industrial User Compliance

1. No. of SIUs Violating a Compliance Schedule/No. On a Schedule..... 0/0
2. No. of SIUs in SNC for the July to December Period..... 2
3. No. of SIUs in SNC At Any Time During Calendar Year..... 8
4. No. of SIUs in SNC That Were Also in SNC During The Previous Calendar Year..... 6
5. No. of NSCIUs that violated any standards or requirements..... N/A

IV. Enforcement Actions

1. Notices/Letters of Violation Issued to SIUs..... 66
2. Enforcable Compliance Schedules Issued to SIUs..... 0
3. Civil/Criminal Suits Filed..... 0
4. No. of SIUs from which Penalties have been Collected..... 17
5. Other Actions (sewer bans, etc.)..... 0

I certify that the information contained in this report and attachments is complete and accurate to the best of my knowledge. (See Part B.V of the instructions)

Deborah A. S. Hoag, P.E.
Name of Authorized Representative

Utilities Division Manager
Title (Print)

Signature

06/18/2012
Date

Pretreatment Annual Report

Part A – Pretreatment Performance Summary

I – General Information

Significant Users
At the end of the reporting period, the City of Reading had 35 significant industrial users, classifying 10 as categorical users and 25 as non-categorical users. Last year the City reported 34 significant industrial users of which 10 were categorical users. One new non-categorical user was added in 2011. All 35 of the users have current permits.

A new permit was issued to Packaging Corporation of America, effective May 1, 2011. This is a company that planned to open a new plant in the service area of the City of Reading Wastewater Treatment Plant. Start up was expected in December 2011. The permit that was issued to the company required notification to the City at least 30 days prior to the expected commencement of discharge along with details of the pretreatment system selected/installed. The company met these criteria. Packaging Corporation of America began operation and discharge in November 2011. The permit includes a limit for free cyanide and testing for free cyanide on a quarterly basis since no data is available for this parameter. The permit also contains a requirement for the submission of a Spill Plan. The SOP for City testing includes quarterly testing for free cyanide. The company assembles and finishes corrugated boxes. It is not a paper manufacturer and is not subject to categorical standards.

Exide Technologies is counted as one significant industrial user. However, the company traditionally was issued separate permits for the three plants that discharge wastewater to the City of Reading. For compliance monitoring (inspections, sampling and self-monitoring) and enforcement counts and spreadsheets, each plant is counted separately. The plants are physically separated but are all located within the boundaries of the Exide Technologies complex. Although ownership is the same, management and authorized representatives were different for these plants. This changed in 2011 and now there is one Plant Manager for the entire complex. In addition, authorized representatives for the Pretreatment Program are now the same for all plants. Significant developments at this company have occurred over the past two years. Plant One and Two essentially closed in 2010. Plant One was a battery charging operation. The discharge from the building was and continues to be sanitary only. Since the closure, there is minimal usage of the building facilities. The majority of the building along with the major employee facilities is shut down and not accessible. Plant Two was a distribution center. It is now used for offices and also for the locker and shower rooms for all employees. The discharge was and continues to be sanitary only. Shower water and many of the sinks discharge to the company's treatment plant and not to the City. The discharge from Reading Recycling was terminated in September 2011. This discharge also was sanitary only. All bathroom facilities have been removed from this building and there is now no discharge to the sampling point. Due to these changes, Exide Technologies will be classified as a non-significant user beginning in 2012 for the discharge at Plant Two. The City will continue to monitor Reading Recycling to verify that there is no discharge.

The new permit for Dietrich's Milk Products was issued to Dairy Farmers of America due to a change in the owner and operator of the company. There were no changes to the operations at the facility and no changes in personnel that would affect the Pretreatment Program.

The new permit for Prizer Works was issued to Prizer Painter Stove Works. There was no change in ownership. The name change was a corporate decision by the current owners. There were no changes to the operations at the facility and no changes in personnel that would affect the Pretreatment Program.

The new permit for Orograin Manufacturing Bakeries was issued to Orograin Bakeries. There was no change in ownership. It was a decision by the current owners to abbreviate the name. There were no changes to the operations at the facility and no changes in personnel that would affect the Pretreatment Program.

A new permit was written for Crescent Brass Manufacturing. The prohibition against the discharge of any casting cleaning discharge without the prior consent of the City was continued in this permit. A clause was added stating that the City reserves the right to observe the operation of the hydrofiltration system. Process wastewater is treated through this system and reused in operations. Because of this, the company is classified as a zero industrial wastewater discharge facility. The discharge from the facility is domestic wastewater from the employees which includes a shower and locker room. As a follow up on information filed with the 2010 Annual Report, the company did file their permit application in 2011. They apparently are no longer using the consultant who was resistant to having this company in the Pretreatment Program. All self-monitoring reports were filed for 2011 with the signature of the authorized representative and the company did not resist the annual inspection.

Non-Significant Users

The City also has 12 users classified as non-significant due to their minor flows and/or the low probability of potential problems. This is a decrease from the 14 reported in the last annual report. Getty Petroleum and Perception did not renew their permits. Both permits expired September 30, 2011. They are both groundwater remediation systems. Getty Petroleum shut down their system in July 2010. Perception shut down their system in April 2009. The permit renewal letters sent to these companies explained that if the permit is not renewed, the system cannot be put back into operation unless the company first notifies the City, files a new permit application and receives a new permit. It was explained that the permit application must be filed at least 90 days prior to the date when the discharge will begin or recommence. The companies are no longer included in the spreadsheets and industrial user listing for the 2011 Annual Report.

The current list of industrial users with their addresses is attached as **Appendix 1**.

II – Compliance Monitoring Program

Appendix 2 provides a listing with issuance and expiration dates for all significant and non-significant user control documents along with the number of inspections, sampling visits and self-monitoring events required and conducted during the year. The City uses permits for its control mechanism for significant and non-significant users. All 35 significant industrial users

have current control documents. All permits are individual. No general control mechanisms (permits) are used. For CIUs, the City has not assigned mass based limits in place of concentration based categorical limits. For CIUS, the City has not assigned concentration based limits in place of mass based categorical limits. The City has not granted a monitoring waiver for any CIU for any categorically regulated pollutants in accordance with 40 CFR 403.12(e)(2). All 35 significant industrial users were inspected during the year. The City requires self-monitoring for all of its significant industrial users. For one industrial user, Orograin Manufacturing Bakeries, the City performs all of the testing for one parameter only. The City performs all testing for color in its own laboratory. The industry is required to do self-monitoring for all other parameters. This decision was based on the results of a split sample study. The City understands that any violation for color in its testing requires a resampling within 30 days in accordance with the Pretreatment Regulations.

Beginning with permits issued effective April 1, 2010, other items in the June 28, 2006 letter addressing the last EPA audit of the City's Pretreatment Program were also addressed. These permits include a limit for free cyanide. A number of these permits do not require testing for free cyanide. This determination was made based on a data review, facility inspections and documents from the company demonstrating that there is no reasonable potential for violation of the local limit for free cyanide and is documented in each permit. However, testing for free cyanide was added to some of the permits as described in the Notes section of the Increased Industrial Sampling spreadsheet in **Appendix 3.** If self-monitoring for any other local limits pollutants is not required twice a year in these permits, documentation based on a data review and facility inspections is included in each permit demonstrating that there is no reasonable potential for violation of the local limit for these particular pollutants. These permits contain a justification for the number of grab samples required for those pollutants that require sampling in this manner. They also contain a justification for the requirement for sampling in certain months of the year.

Beginning with permits issued effective April 1, 2010, the following permit conditions are included as sent to the EPA in April 2010:

D. Other Permit Conditions

The permittee shall notify the City immediately of any changes at the facility affecting the potential for a slug discharge. A slug discharge is any discharge of a non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch discharge, which has a reasonable potential to cause interference or pass-through, or in any other way violate the POTW's (publicly owned treatment works) regulations, local limits or permit conditions.

The Permittee shall maintain or provide documentation demonstrating compliance with the best management practices listed below.

- A Spill Prevention and Control Plan (Accidental Discharge/Slug Control Plan) that has been submitted to the City for approval must be maintained and implemented by the Permittee. A plan entitled _____, dated _____ and signed _____ was submitted to the City for approval. The Permittee is required to maintain and implement this plan at its facility.

All 35 significant industrial users were inspected and sampled by the City during the year. City sampling of significant users varies from monthly to annually. Exide Technologies – Plant One was sampled on a quarterly basis by the City. The City discontinued testing in the second half of 2010. Production in this building ceased on June 7, 2010 followed by cleanup of the production areas. The company continued sampling as required by permit. The discharge from the building is sanitary only. The closure resulted in minimal usage of the building facilities. The majority of the building along with the major employee facilities is shut down and not accessible. Exide Technologies – Reading Recycling could not be sampled in the fourth quarter because there was no discharge, as described below. Packaging Corporation of America was sampled one time in 2011 because the company began operations in November.

Significant users are required to submit self-monitoring reports at varying frequencies but not less than twice per year. All significant industrial users submitted all required self-monitoring reports during the year. Exide Technologies – Reading Recycling submitted three self-monitoring reports. A report for the fourth quarter could not be submitted. As described in more detail in Part A. III, the company removed all sources of sanitary discharge to the sampling point in September 2011. The sanitary discharge is the only discharge to the sampling point. The company verified that there was no discharge to the sampling point in the fourth quarter and therefore could not conduct testing in this quarter. By its permit, Packaging Corporation of America was not required to perform self-monitoring in 2011. This is because expected start up was December of 2011. The first required self-monitoring is January 2012. The permit required that the company notify the City at least 30 days prior to start up and the City reserved the right to begin sampling after start-up. The company began operations in November and the City sampled in December. Sealed Air Corporation could not perform the required weekly color testing for two weeks in September. This was due to flooding at the plant from the river rising after a hurricane and extreme rain event. The plant was closed for two weeks due to the flood event.

Two significant industrial users were cited for Failure to Report. Cloister Car Wash and Lube submitted its third quarter self-monitoring report in a timely manner but did not submit all of the tests required by permit for the third quarter. Its contract laboratory did not perform all of the required testing. The missing tests were performed, submitted to the City and were in compliance. Termaco USA did not submit its third quarter self-monitoring report within 30 days after the due date. The report was subsequently submitted to the City and was in compliance. This is described in Part A. III. These users received administrative penalties and were published as facilities in SNC for Failure to Report. Beginning with the third quarter of 2005, the City is using Late Sampling as a noncompliance category. Late Sampling is applied when the self-monitoring report is received in a timely manner but the testing submitted is performed in a month or time frame other than required by the permit. One significant industrial user was cited for Failure to Resample. The user and parameter in non-compliance is: St. Joseph Medical Center Downtown for mercury at outfall 006 in the fourth quarter. The user submitted the required resample and returned to compliance. This is described in Part A. III. This user received an administrative penalty and was published as a facility in SNC for Failure to Resample.

During the year, the City conducted sampling in excess of the proposed amount at a number of facilities to assess compliance after violations. A number of facilities conducted self-monitoring above the required amount for the same reason. These events were done at the facility's initiative or voluntarily following the City's request. The Increased Industrial Sampling spreadsheet shows details of this and is included in **Appendix 3**. The number of additional sampling events on this spreadsheet does not always correspond with the Compliance Monitoring spreadsheet in Appendix 2 that covers all sampling events for the year. This is because City sampling events for issues other than compliance (additional sampling for conventional pollutants for surcharge billing) are not included in the Increased Industrial Sampling spreadsheet. In some cases, the City or the industry tested for additional parameters during a required or scheduled sampling event. In this case, the additional sampling performed column has been left blank and only the tests are listed. Required industrial resamples following violations are not included on any of the spreadsheets. Separate spreadsheets are included for significant industrial users and non-significant industrial users. The Increased Industrial Sampling spreadsheet also includes a Notes section. In this section, formal changes in sampling frequency are described. These are instances where the industrial user's permit or the City's SOP for an industrial user was changed to increase the frequency of testing for a parameter of concern.

While not required to report on non-significant industrial users, the City has always included this information in the Annual Report. All non-significant industrial users were sampled by the City during the year, except Ultra Wash of Philadelphia. Ultra Wash of Philadelphia is permitted for possible batch discharge only and therefore monitoring by the City is not planned. City sampling of non-significant users varies from quarterly to annually with the exception of Ultra Wash of Philadelphia.

Non-significant users are required to submit self-monitoring reports at varying frequencies but not less than once a year. Ultra Wash of Philadelphia is required to report quarterly on whether there has been a discharge to the sewer system. All non-significant industrial users submitted all required self-monitoring reports during the year.

No non-significant industrial users were cited for Failure to Report. One non-significant industrial user was cited for Failure to Resample. The user and parameter in non-compliance is: Paragon Optical Company for copper at outfall 002 in the third quarter. The required resample has not yet been submitted to the City. This is described in Part A. III. This user received an administrative penalty and was published as a facility in SNC for Failure to Resample.

III – Significant Industrial User Compliance

Compliance Schedules

There are no significant users on a formal compliance schedule as of the end of 2011.

List of significant users in SNC anytime in 2011

An explanation of the individual facilities, both significant and non-significant, in SNC during the reporting year follows below. The number of SIUs in SNC at any time during the calendar year was 8. The number of SIUs in SNC for the July to December Period (fourth quarter) was 2. 5 of the 8 SIUs that were in SNC during the calendar year were in SNC for one quarter only. One of these 5 SIUs was in SNC for Failure to Report. 3 other SIUs were in SNC for more than one

quarter. Two of these companies have already taken measures to solve their non-compliance issues. The remaining industry has eliminated the discharge. This was a sanitary only discharge and the company removed all bathroom facilities in the building.

The table below summarizes SNC by quarter. The first column shows the number of SIUs in SNC for the quarter. The second column shows the number of SIUs that were also in SNC for the previous quarter. The third column shows the number of new SIUs in SNC (not in SNC in the previous quarter). The fourth column shows the number of SIUs that were in SNC in the previous quarter but were not in SNC for the current quarter (returned to compliance or inconsistent noncompliance).

2011	SNC	SIUs in Repeat SNC	New SIU in SNC	SIUs that Returned to Compliance
1st quarter	3	1	2	3
2nd quarter	3	1	2	2
3rd quarter	6	2	4	1
4th quarter	2	2	0	4

The table below shows the compliance status of the SIUs by quarter for the 2011 year. The number of SIUs in the first column had no violations for the quarter. The number of SIUs in the second column had violations that did not result in SNC. The number of SIUs in the third column had violations resulting in SNC.

2011	Compliance	Inconsistent Noncompliance	SNC
1st quarter	27	4	3
2nd quarter	23	8	3
3rd quarter	23	5	6
4th quarter	29	4	2

These facilities are the *significant users* that were in SNC for the year.

Cloister Car Wash and Lube + 2010
Nature of violations:

1st Quarter – TRC and chronic violation of the zinc limit listed in its permit
(3) 2nd Quarter – TRC violation of the zinc limit listed in its permit $3200
3rd Quarter – Failure to Report No sched.

Actions planned and current compliance status:
Previous violations were traced to the wheel cleaner used. In 2010, the company installed a 300 gallon tank in the trench drain in the automatic car wash under the wheel wash section. Wastewater from this tank is pumped to the control/equipment room where it is filtered and then discharged to the last of 3 x 1800 gallon underground settling tanks for wastewater from the car wash. The underground settling tanks are pumped out by an outside contractor twice a year. In addition, the 300 gallon tank is pumped out regularly by a contractor. After the violations in the first quarter, the company increased the schedule for pumping out its settling tanks and began to investigate upgrading the zinc filtration method, if necessary. SNC for the second quarter is based solely on violations that occurred in the first quarter. The company was in compliance for all three tests conducted for zinc in the second quarter and was also in compliance at the end of the year. The company and the City test quarterly for zinc. Due to past violations, the fine for any zinc violation was escalated twice and is now at $500 per occurrence, in accordance with the City's Penalty Escalation Policy.
The self monitoring testing that was submitted for the third quarter was incomplete. Some of the testing required in August by the company's permit was not performed by its contract laboratory. The missing tests were performed in December, submitted to the City and were in compliance.

Clover Farms Dairy + 2010
Nature of violation:

2nd Quarter – TRC violation of the oil/grease (HEM) limit listed in its permit $21,900

Actions planned and current compliance status:
A Consent Agreement with Clover Farms Dairy terminated on July 31, 2008. The agreement was for compliance with the oil and grease and pH limits in its permit. The company hired a consulting firm to work on the compliance issues. At the request of this firm, the agreement was written with two pathways to achieve compliance. These alternatives were equalization and pH adjustment or DAF technology. Each alternative had a separate termination date to achieve compliance. Segregation and hauling of wastewater high in oil and grease along with equalization and pH adjustment of the majority of the wastewater was chosen. The final compliance date for this approach was July 31, 2008. This Consent Agreement was signed on December 29, 2006.

The construction of this system did not return the company to compliance. It is possible that the sampling and testing studies conducted by the consulting firm were inaccurate. The design plans were based on these studies. The company continued its effort to divert additional waste streams to the segregation tank. Company engineers also made a number of modifications to the original system. None of these efforts were successful. In 2009 the company hired another engineering firm to design a building and DAF system. Subsequently, it hired a second firm to work on land development and zoning approvals from the township in which the company is located. The

company met with township officials, the Planning Commission, and the Zoning Hearing Board. The City expected to write another Consent Order or Agreement in 2010 after the company had a better idea of how long the approvals would take and if there are any major impediments. Township approvals were responsible for some of the delays during the 2006 Consent Agreement. However, the company did not communicate with the City concerning a time schedule for completion of the project. The City continued to make contact with the company concerning its progress and the company indicated that it was still experiencing delays with the township. The company was in SNC for oil and grease for all four quarters in 2009 and 2010.

The City and the company test monthly for oil and grease. For the entire 2011 year, the company was in compliance with its oil and grease limit on self-monitoring testing. For the City testing, there were violations for the first six months of 2011. Beginning with July 2011, there were no violations for oil and grease on City testing. In December 2011, the City was asked to attend a meeting with the company's lawyer. No company representatives were in attendance. The lawyer wanted permission from the City to abandon plans for the DAF system because it found an alternative way to achieve compliance that would be much less expensive. The lawyer stated that the company is now manually skimming the equalization tank and this is the factor that has lead to compliance. The City requested additional information on the method being used to achieve compliance. A visit to the facility was discussed. The City also stated that a more permanent method for pH control would still be needed as well as a sampling manhole. These would have been included in the DAF system plan. After the meeting, City officials decided to begin second and third shift sampling to confirm that compliance with the oil and grease limit is not limited to the day shift. This was begun in January 2012. In December 2011, the City already began additional oil and grease sampling during the day shift at Clover Farms Dairy because of the dramatic change in the number of violations in 2011.

In January 2012, a meeting was held with the company's authorized representative and the company's lawyer. Due to the company's compliance record with the manual skimming of the equalization tank twice a day, the company wants to cancel plans for the installation of a DAF system. In order to maximize the effect of skimming, the company is obtaining a quote to install an automatic skimmer in the equalization tank. The City stated again that a more permanent method for pH control would still be needed as well as a sampling manhole. The company stated that if the automatic skimmer is successful in controlling oil and grease, it would install a large pH adjustment tank after the equalization tank and a sampling manhole. If the skimmer is not successful, the company would install the DAF system which would require pH control and a sampling manhole would be installed. The City decided that the best way to handle this is through a COA. However, it was also decided that any COA would have to be approved by EPA since the Enforcement Branch of the EPA is conducting its own investigation of the company. Because of the history of non-compliance and the amount of time that has passed without a permanent solution, any COA written would not include any reduction in fines during the COA.

Prior to signing the 2006 Consent Agreement, the fine schedule was $1500 per occurrence for an oil and grease violation. For the duration of the Consent Agreement, the fine for any oil and grease violation was set at $500 per occurrence. This fine amount continued after the termination of the Consent Agreement on July 21, 2008. Beginning with the first quarter of 2009, the fine for any oil and grease violation was escalated in accordance with the City's Penalty Escalation

Policy. The fine went from $500 to $1000 per occurrence in the first quarter of 2009. Since that time there were three additional escalations per occurrence. In the third quarter of 2009, the fine was increased to $1500. In the first quarter of 2010, the fine was increased to $2000. In the third quarter of 2010, the fine was increased to $2500. In the first quarter of 2011, the fine was increased to $3000. The fine remains at this amount since there have been no violations since July 2011.

Exide Technologies – Reading Recycling †2010

Nature of violations:

- 1st Quarter – TRC violation of the copper limit listed in its permit
- 1st Quarter – TRC violation of the zinc limit listed in its permit
- 3rd Quarter – TRC violation of the copper limit listed in its permit
- 3rd Quarter – TRC violation of the zinc limit listed in its permit
- 4th Quarter – TRC violation of the lead limit listed in its permit
- 4th Quarter – TRC and chronic violation of the copper limit listed in its permit $400
- 4th Quarter – TRC and chronic violation of the zinc limit listed in its permit N. Sched

Actions planned and current compliance status:

The building producing the permitted discharge had a fire resulting in structural damage in May of 2009. Employees using the facilities in this building were directed to bathrooms and showers in other Exide buildings in the complex. Even after the building was restored at the end of November 2009, use of the building by the employees was not reinstated. The locker room was set up for contractor use only. However, the possibility of employees still using the bathrooms for convenience has to be considered. The discharge from the building is sanitary only and does not include the shower water. There is no industrial discharge. Due to previous violations, the company investigated other potential sources of discharge to the sampling point. Early in 2011 the company found another bathroom facility with a floor drain and showers that discharged to the sampling point. This bathroom was taken out of service. All fixtures were removed and the drains were sealed shut. SNC for the first quarter of 2011 is based solely on violations that occurred in the fourth quarter of 2010.

After the violations that occurred in the third quarter, the company hired an outside contractor to trace the lines to make sure that there were no other sources of discharge. They then removed the remaining three toilets in the building which eliminated all known sanitary discharges to the outfall. This was done in September 2011. The company did not return to compliance for copper and zinc but did return to compliance for lead. Additional sampling could not be done due to the lack of discharge. No sampling was done in the fourth quarter for this reason. SNC for the fourth quarter is based solely on the violations that occurred in the third quarter. The City plans to set up a sampler for a week to verify the lack of discharge and will probably continue random checking of this outfall in the future as long as it is open. The company has not yet decided whether or not the outfall will be permanently capped.

Hofmann Industries, Inc.

Nature of violation:

- 1st Quarter – Chronic violation of the maximum monthly average limit for zinc listed in its permit $200

Actions planned and current compliance status:

This is a categorical industrial user and has a maximum monthly average limit for a number of parameters including zinc. Because zinc plating is done, this is a metal of concern. There is a pretreatment system in operation. The violation was a result of a high zinc result on the City test conducted during the month of March. The cause of the violation on this day could not be determined by the company. The company conducted six additional voluntary tests later in the month and each result was below the monthly average limit for zinc. However, because of the magnitude of the violation on the City test, there is still a chronic violation of the maximum monthly average for March. Another chronic violation of the maximum monthly average limit for zinc occurred during the fourth quarter of 2010. The City tests twice a year and the company tests four times a year for metals of concern which includes zinc. In addition, the company performs voluntary additional testing for zinc and chromium. The company has returned to compliance and had no other violations for the rest of the year.

National/Yorgey's Cleaners + 2010
Nature of violations:

3rd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit
3rd Quarter – TRC violation of the oil and grease (SGT-HEM) limit listed in its permit $300

Actions planned and current compliance status:
SNC is based on one violation each for HEM and SGT-HEM in the two tests conducted. The violations occurred during the same sampling event. The company has not had an oil and grease violation since the fourth quarter of 2009. The company returned to compliance. The company had no other oil and grease violations during the year.

Orograin Manufacturing Bakeries + 2010
Nature of violation:

3rd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit at outfall 001 $300

Actions planned and current compliance status:
SNC is the result of one violation in the three tests conducted. The company believes that the violation was caused by the cleaning of equipment near a floor drain by an employee who did not take the usual measure to prevent high strength wastewater from entering the drain. The company returned to compliance in a test conducted less that a week later and in testing conducted during the fourth quarter.

St Joseph Medical Center Downtown
Nature of violations:

2nd Quarter – TRC and chronic violation of the mercury limit listed in its permit at outfall 006
3rd Quarter – TRC and chronic violation of the mercury limit listed in its permit at outfall 006
4th Quarter – TRC violation of the mercury limit listed in its permit at outfall 006 $800
4th Quarter – Failure to Resample

Actions planned and current compliance status: No sludge
SNC for the second quarter is based on one violation on the one testing event conducted during the first half of the year. SNC for the third quarter is based on two violations on the two testing events conducted during the rolling six month period used to calculate SNC. This includes the

violation cited for the first half of the year. The company attributed the first violation to a recent pumping out of the lift station where sampling is done and the second violation to problems with the pumps at the lift station. The probable source of the mercury at this outfall is from a dental clinic. The filtration system for reclaiming fillings in the clinic was checked to ensure there were no problems. The company will look into a new system if violations persist. The company returned to compliance in two tests performed in the fourth quarter. These tests were conducted after the company installed two new pumps at the lift station.
The company failed to resample and report within 30 days following a mercury violation at outfall 006 on a test that the company voluntarily conducted. The resample was conducted and was in compliance.

Termaco USA, Inc. #2010
Nature of violation:
3rd Quarter – Failure to Report $1000
Actions planned and current compliance status:
The self-monitoring report for the third quarter was not submitted with 30 days after the due date. The report was subsequently submitted to the City and was in compliance.

The following facilities are *non-significant users* in SNC for the year.

Paragon Optical Company
Nature of violations:
1st Quarter – TRC violation of the copper limit listed in its permit
2nd Quarter – TRC and chronic violation of the copper limit listed in its permit
3rd Quarter – Failure to Resample
4th Quarter – TRC violation of the copper limit listed in its permit
Actions planned and current compliance status:
The company did not have metals violations for three years. Violations began in the fourth quarter of 2009. The company has been monitoring the discharge and cleanouts of the solids retention sump more closely and this has controlled the discharge of metals with the exception of copper. The company did not return to compliance for copper by the end of the year. The company has not been successful in determining the cause of the violations. The City will be meeting with the company in 2012 to seek a resolution to the violations that have occurred. The company achieved compliance in the past. The City intends to investigate factors that have changed since that time including product and production changes, economic factors and sampling procedures. All but one of the violations in 2011 occurred in self-monitoring events. The City monitors for metals of concern including copper on a quarterly basis.
The company failed to resample and report within 30 days following a copper violation. The required resample has not yet been submitted to the City.

Unique Pretzel Bakery
Nature of violation:
2nd Quarter – TRC violation of the chromium limit listed in its permit
Actions planned and current compliance status:
SNC for chromium is based on one violation in the two sampling events for chromium conducted in the first half of the year. The company is not sure of the cause of the violation.

Due to the nature of the business, sampling can only be conducted four times a year when the tanks are discharged to the sewer. These discharges are coordinated so that the company can perform two self-monitoring tests and the City can perform two tests each year. Chromium testing is performed once a year by both the company and the City because in the past this has not been a pollutant of concern. The discharge occurs for only a short period of time and the composite sample is composed of two grabs. One is taken during tank discharge and one is taken during the discharge of tank cleaning water. The only outfall - which was the sampling point - receives all the discharges from the facility. For these reasons, the company installed a receiving tank for all of the process discharge where equalization and pH adjustment can be done. Sampling can now be done directly from this tank. The company returned to compliance in the third quarter after the receiving tank was installed and sampling was conducted from the tank.

Van Bennett Food Company
Nature of violations:

2nd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit
3rd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit

Actions planned and current compliance status:
The exact cause of the violations is unknown but the company has reviewed SOPs with management and employees relative to procedures for maintaining compliance with its oil and grease limit. The company has returned to compliance. Six tests are conducted annually for oil and grease between the City and self-monitoring.

Repeat SNC from the Prior Year
Industrial Users that were in SNC for this reporting year that were also in SNC for the previous reporting period are found in **Appendix 4**. This appendix also lists the parameter or reason for the industrial user being in SNC for both years. The one industry that did not return to compliance by the end of 2011 is Exide Technologies. Since the discharge to the outfall has been discontinued, a return to compliance is not possible. However, the City will continue monitoring this outfall for a period of time to ensure there is no discharge. This is described in Part III above.

Newspaper Listing
The significant users in significant non-compliance at any time during the reporting year are found in the newspaper listing attached as **Appendix 5**. The City used the rolling six-month time frame as required by 40 CFR 403.8 (f)(2)(viii) and reported all significant violators on a quarterly basis.
Exide Technologies – Reading Recycling was not published for first quarter 2011 SNC. Their SNC for the first quarter is based solely on violations that occurred in the fourth quarter of 2010. The company was already published for reporting year 2010 for SNC in the fourth quarter for copper and zinc. All testing for copper and zinc in the first quarter was in compliance.

IV – Enforcement Actions

Appendix 6 provides a list of the following for both significant and non-significant industrial users:

Notices of violation
Number and nature of violations
Compliance orders
Total penalties assessed in 2011 and the reasons for the penalties

The City issued 66 Notices of Violation for 2011. This is a decrease from the 103 NOVs reported for the 2010 year. This is the lowest number of NOVs issued for a calendar year in over 8 years. Also, only 19 SIUs received NOVs for 2011 which is the lowest number of SIUs having NOVs leading to the highest compliance rate in recent history. It is attributed to working informally but aggressively with industries having compliance issues in order to seek solutions prior to the necessity of a Consent Agreement. Another major factor is the City's Penalty Escalation Policy. Under this program, the penalty is escalated after two consecutive quarters with one or more TRC violations for the same parameter. The penalty escalates again after two more consecutive quarters with one or more TRC violations for the same parameter. If there is a quarter without a violation, the penalty remains at the same level for the next two quarters. The penalty returns to the base amount after four consecutive quarters without a violation for the parameter in question. Although there are some industries that are still having penalties escalated, others have been able to return to the base amount through continued compliance. The penalty escalation program has also been a positive factor in working with industries to enter into a Consent Agreement. The penalty escalation program has been in effect since 2003.

All SIUs that had violations were subject to enforcement action by the City. All NOVs issued to SIUs by the City were followed with an administrative penalty during the next billing cycle. The initial penalty schedule is found in **Appendix 6**. A number of facilities have had penalties escalated due to recurring violations for the same parameter which is also detailed therein.

Compliance Schedules

There were no compliance schedules issued in 2011. A Consent Order or Consent Agreement (COA) may be written for Clover Farms Dairy. The compliance history of this company and its current status is thoroughly described in Part A.111 above. The City intends to proceed cautiously in the decision to write such a document and secure EPA review and input of the draft COA prior to any discussion or presentation of the document to the company. The City does not intend to include any reduction in fines in a new COA. The City does intend to require pH adjustment, a new sampling point (sampling manhole) and flow metering of the discharge. The company and its lawyer appear to want the City's approval or consent to abandon plans for a DAF system in favor of the installation of skimmers to control oil and grease. The City is interested in consistent compliance at all times and representative sampling and the method of achieving this is the responsibility of the company. The City had discussions with Dietrich's Milk Products (now Dairy Farmers of America) in 2010 in regard to a Consent Agreement. It was expected that a Consent Agreement would be signed with this company in 2011. However, there was a lot of rewriting and revision of the City's standard Consent Agreement by the company's lawyers. In the meantime, the company continued with their plans to install DAF technology to control pH and oil and grease. The time delays with the Consent Agreement rendered it unnecessary. The DAF system was put into operation in the summer of 2011. Although this company has not been in SNC since 2006, their penalty for any oil and grease violation was $4000 per occurrence throughout the 2011 year. The penalty had been escalated

numerous times over the years in accordance with the City's Penalty Escalation Policy. This was a factor in the company's decision to install a DAF pretreatment system.

There are no significant users on compliance schedules that are in writing but are not considered "formal".

19 significant users were assessed penalties in 2011. Penalties were collected from 17 of the users in 2011. The number of users paying penalties in 2011 does not correspond to those receiving penalties as a result of the third and fourth quarter 2010 penalties that were issued and paid in 2011. Some industries had violations for 2010 but not in 2011. Penalties are included in the quarterly industrial waste surcharge bills. Conversely, the City received payments in 2011 for violations occurring and assessed in 2010. Of the 19 SIUs receiving a penalty, 15 paid in 2011 while the other four assessed penalties near the end of 2011 did pay their fines in 2012. Two users with late 2010 violations paid their fines in early 2011. A report on the penalty payment status for violations occurring during 2011 is included in **Appendix 7**. Please note that Crescent Brass appears periodically throughout the report. They are required to pay $265.05 monthly for prior years' delinquent fines as a settlement in their bankruptcy. These payments are processed by the Law Department and postings often include multiple months.

The City has been and will continue to investigate errors in the penalty payment and posting. There are some minor payment discrepancies requiring additional research with the Administrative Services Department. Public Works staff has discovered errors with the posting of prior penalties' payments within the software system as well as subsequent corrections not reflected in the reports. Research in this system shows that the corrections appear in some individual customer queries but not in the summary reports pulled for routine use such as the requisite reporting. This system's data is also transferred to the City's accounting system so the error correction process is critical. The City is working interdepartmentally to resolve this issue for the past and determine how to make corrections be reflected in both the accounting and tracking systems with accurate tracking and reporting in all systems as the goal. Crescent Brass as discussed above is one industry known to have an issue with the software report discrepancy described.

Part B – Pretreatment Developments

I – Summary of POTW Operations

Over the past year, the City has not experienced process upsets, NPDES permit violations, pass-through events or interferences that could be attributed to industrial waste. Additionally, the City did not have problems in the collection system that could be attributed to industrial waste.

The ongoing improvements in management, operations and maintenance (MOM) practices during the year continue to make the pump stations and wastewater treatment plant (WWTP) more effective, efficient and reliable.

The City is required to perform priority pollutant testing annually. The priority pollutant sampling along with the quarterly local limits testing was conducted on the following dates: 8/18-19/11 for the influent, 8/23-24/11 for the effluent and 7/5/11 for the biosolids. The results of these analyses are included in **Appendix 8.** The Form 43 biosolids sampling was conducted on 3/4/11 and 8/2/11. The City is required to perform local limits testing on the influent, effluent, and biosolids on a quarterly basis per the City's NPDES permit. Four tests were performed for the influent and effluent as reported in the in the Monitoring Data Spreadsheet. Weekly mercury testing is performed on plant influent points and the plant effluent. The results of these analyses are included in **Appendix 8**. Priority pollutant testing, quarterly local limits testing and mercury testing is also performed at two of the major influent points for the plant prior to the commingling of all wastewater at what is designated as the plant influent. These two major influent points are designated as 6^{th} and Canal (6^{th}) and the Grit Chamber (Grit). Results for these two major influent points are included in **Appendix 8** and also in the Monitoring Data Spreadsheet.

For biosolids, monthly 503 analyses were performed in 2011. Monthly fecal coliform testing on biosolids was performed in the City's laboratory and the results are summarized in a table. These are included in **Appendix 8.**

Influent, effluent and biosolids data from the quarterly testing and priority pollutants testing and biosolids data from the Form 43 and 503 analyses are summarized in the Monitoring Data Spreadsheet received by e-mail from the EPA. These are included in **Appendix 8.** The monthly average for BOD, TSS, NH_3-N, TKN and Phosphorus for the plant influent was added to the Monitoring Data Spreadsheet. Data from the two major influent points of the plant was added to the Monitoring Data Spreadsheet as two separate tabs.

Additional testing that the City performed for bis(2-Ethylhexyl)phthalate or semivolatiles on the plant influent points, plant effluent and biosolids is included in **Appendix 8**. This was done on at least a monthly basis.

A spreadsheet is also included showing the results and monthly average of testing performed for TKN, Total Phosphorus and ortho-phosphate on the influent in 2011.

Biosolids testing for the year showed the typical higher level of molybdenum in the three summer months. The City identified cooling tower chemicals as an important source of this metal. All permittees are required to test for molybdenum at least once a year and the City tests for molybdenum as well. The City ensures that permits require testing for this metal in the summer months. No major source of molybdenum has been found at any industrial user. The City has been encouraging the elimination of molybdenum containing cooling tower chemicals among its industrial users, non-industrial users and contributing municipalities. All metals in the biosolids meet land application concentration limits except for molybdenum in the summer months. There were no maintenance activities performed in those months that would potentially explain the reason for the elevated levels. The City continues to landfill all biosolids from the wastewater treatment plant but would like to be able to consider other disposal options in the future.

In a letter from DEP dated August 31, 2004, the effluent limit for mercury was amended. The new limit which is a monthly average is 0.00023 mg/L. A copy of the letter and the discharge limitations showing the amended mercury limit is enclosed. The Monitoring Data Spreadsheet lists 0.00007 mg/L as the effluent goal.

No trucked or hauled wastewater or brine waste is accepted at the plant or within the collection system. In 2006, Dietrich's Milk Products began collecting some of its high strength wastewater as part of its program to comply with its oil and grease limit. This is primarily first flushes during equipment cleanup after milk processing. It is transported by Rodney Loeb Septic Service to the Berks County Wastewater Treatment Plant. In 2008, Clover Farms Dairy also began collecting some of its high strength wastewater to control oil and grease discharges. It is transported by Bailey's Septic Service to the Berks County Wastewater Treatment Plant. Documentation on individual waste streams that are collected for off site disposal (i.e. hazardous waste, used oil, sludges) by industrial users is reviewed during facility inspections.

II – Pretreatment Program Changes

During 2011, there were no changes in the legal authority.

The City continues to use both the PreWin commercial software program as well as a custom spreadsheet developed by the Environmental Program Coordinator for tracking compliance. This system of checks and balances ensures that all deadlines, milestones, notices of violation, and significant non-compliance will be accurately reflected and reported.

The WWTP laboratory, which performs conventional analyses for the wastewater treatment plant and industries, received accreditation in January 2008 under Pennsylvania's Chapter 252, Environmental Laboratory Accreditation. The laboratory has maintained its accreditation since that time. A renewal application was submitted in December 2011. Accreditation has been renewed through January 31, 2013. The scope of accreditation is for the following parameters: BOD, cBOD, TS, TSS, TDS, fecal coliform, ammonia as nitrogen and distillation for ammonia as nitrogen.

In 2011, one of the laboratory technicians resigned due to medical reasons. Recruitment was conducted promptly and a replacement was hired. The laboratory is staffed with five laboratory technicians and a laboratory supervisor. One laboratory technician is the primary person performing the industrial sampling. However, the job duties of all of the laboratory technicians include industrial sampling. The other laboratory technicians are cross trained to perform industrial sampling so they are familiar with all of the industrial sites and the sampling points.

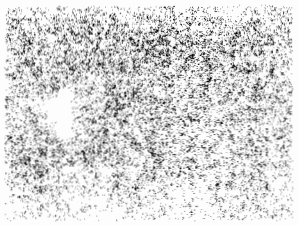
III – Miscellaneous Developments

During March 2003, legal counsel for the City was requested by the United States Department of Justice to meet concerning permit violations of the wastewater treatment plant. As a result of this and subsequent meetings, the City of Reading has a Consent Decree with the United Stated Department of Justice, United States Environmental Protection Agency, and Pennsylvania Department of Environmental Protection in order to address past permit violations and to obtain consistent permit compliance for the future. This Consent Decree addresses the wastewater treatment plant, collections system, and industrial pretreatment program. The negotiations for this Consent Decree were completed and the decree executed by all parties in 2004. On December 9, 2004, the US Attorney announced that an agreement had been reached between the parties, and the complaint and decree were lodged with the judge simultaneously. This was subsequently advertised for a thirty-day public comment period which continued into 2005. The Consent Decree was officially signed by the judge and entered on November 7, 2005. This Consent Decree dictates many interim improvements and systems to be implemented while the City embarks on studies of both the WWTP and collection system prior to beginning a capital improvement plan.

For the Consent Decree interim remedial measures, there is the ongoing implementation and refinement of the Environmental Management System, Wet Weather Operations Plan, and the Operations and Maintenance Plan. Additionally, the Plant Influent, Trickling Filter Performance, and Process Control Monitoring are continuing as described in their respective submissions as required.

The long-term remedial measures for the WWTP upgrades, includes the liquid and solid treatment alternatives required by the Consent Decree. Additionally, the collection system has goals to improve mapping, operations, and maintenance through a regimented process leading to system rehabilitation

The City continues to work to improve the wastewater system as a whole and plan for capital improvements. Periodic reports to the regulators and meetings with the regulators document the City's progress and concerns.



Appendix 1
Current Industrial Users

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Appendix 2
Compliance Monitoring Program

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Appendix 3
Increased Industrial Sampling

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Appendix 4
Facilities in SNC for 2011 that were also in SNC for 2010

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Appendix 5
Newspaper Listing of Significant Violators

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Appendix 6
Enforcement Actions

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Appendix 7
Payment Status

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Appendix 8
Data Monitoring Spreadsheet
Analytical Results

2011 Pretreatment Report Appendices

APPENDIX 1

CURRENT INDUSTRIAL USERS

SIGNIFICANT INDUSTRIAL USERS 2011
CATEGORICAL INDUSTRIES (10)

Carpenter Technology Corporation - Iron and Steel 101 West Bern Street Reading PA 19601	Mailing Address: P O Box 14662 Reading PA 19612-4662
Crescent Brass Manufacturing-Metal Molding & Casting - Zero Discharge 701 Park Avenue Reading PA 19611	Mailing Address: Same
Hofmann Industries - Metal Finishing 3145 Shillington Road Sinking Spring PA 19608	Mailing Address: Same
Reading Plating and Polishing Works - Electroplating 1833 Cotton Street Reading PA 19606	Mailing Address: 1839 Cotton Street Reading PA 19606
Reading Truck Body - Metal Finishing 201 Hanover Blvd. Reading PA 19611	Mailing Address: Same
Sealed Air Corporation - Pulp and Paper 450 Riverfront Drive Reading PA 19602	Mailing Address: Same
Summit Steel and Manufacturing - Metal Finishing 1005 Patriot Parkway Reading PA 19605	Mailing Address: P O Box 14295 Reading PA 19612
Termaco USA - Metal Finishing 171 Tuckerton Road Reading PA 19605	Mailing Address: Same
United Corrstack - Pulp and Paper 720 Laurel Street Reading PA 19602	Mailing Address: Same
Yuasa Inc - Battery Manufacturing 2901 Montrose Ave Laureldale PA 19605	Mailing Address: Same

SIGNIFICANT INDUSTRIAL USERS 2010
NON-CATEGORICAL INDUSTRIES (25)

Akzo Nobel Coatings 159 Columbia Avenue Reading PA 19601	Mailing Address: Same
Aramark Uniform Services 424 Blair Avenue Reading PA 19601	Mailing Address: P O Box 15166 Reading PA 19612-5166
The Bachman Company 51 Spring Valley Road Reading PA 19605	Mailing Address: P O Box 15053 Reading PA 19612-5053
Berks Packing Company 307-323 Bingaman Street Reading PA 19602	Mailing Address: P O Box 5919 Reading PA 19610-5919
Cloister Car Wash and Lube 1 Cloister Court Sinking Spring PA 19608	Mailing Address: 814 Dawn Avenue Ephrata PA 17522
Clover Farms Dairy 3300 Pottsville Pike Reading PA 19605	Mailing Address: P O Box 14627 Reading PA 19612-4627
Cryovac, Inc. Food Packaging Division 177 Tuckerton Road Reading PA 19605	Mailing Address: P O Box 295 Reading PA 19603
Dairy Farmers of America 100 McKinley Avenue Reading PA 19605	Mailing Address: Same
Evergreen Community Power 800 South Street Reading PA 19602	Mailing Address: Same

Exide Technologies Plant One Spring Valley Road & Nolan Street Laureldale PA 19605	Mailing Address: P O Box 14294 Reading PA 19612-4294
Plant Two Spring Valley Road & Montrose Avenue Laureldale PA 19605	Mailing Address: P O Box 14294 Reading PA 19612-4294
Reading Recycling Spring Valley Road & Nolan Street Reading PA 19605	Mailing Address: P O Box 14294 Reading PA 19612-4294
IFS Industries Inc. 400 Orrton Avenue Reading PA 19611	Mailing Address: P O Box 1053 Reading PA 19603
Interstate Container LLC. 100 Grace Street Reading PA 19611	Mailing Address: Same
Lentz Milling 2045 N 11th Street Reading PA 19604	Mailing Address: P O Box 13159 Reading PA 19612
National/Yorgey's Cleaners 1700 Fairview Street Reading PA 19606	Mailing Address: Same
Orograin Bakeries 640 Park Avenue Reading PA 19611	Mailing Address: Same
Packaging Corporation of America 171 Tuckerton Road Reading PA 19605	Mailing Address: Same
Prizer Painter Stove Works 600 Arlington Street Reading PA 19611	Mailing Address: P O Box 1053 Reading PA 19603
Quadrant EPP USA, Inc. 2120 Fairmont Avenue Reading PA 19605	Mailing Address: P O Box 14235 Reading PA 19612-4235
Quaker Maid Meats 520 & 521 Carroll Street 650 Morgantown Road Reading PA 19611	Mailing Address: P O Box 350 Shillington PA 19607-0350

Reading Eagle
345 Penn Street
Reading PA 19601

Mailing Address:
P O Box 582
Reading PA 19603

Reitech Corporation
3146 Marion Street
Laureldale PA 19605

Mailing Address:
Same

St Joseph Medical Center-Downtown
145 N 6th Street
Reading PA 19601

Mailing Address:
P O Box 316
Reading PA 19603

Sun Rich Fresh Foods
425 Gateway Drive
Reading PA 19601

Mailing Address:
Same

Sweet Street Desserts
722 Hiester's Lane
Reading PA 19605

Mailing Address:
P O Box 15127
Reading PA 19612-5127

Tom Sturgis Pretzels
2267 Lancaster Pike
Reading PA 19607

Mailing Address:
Same

2010 NON-SIGNIFICANT INDUSTRIES (14)

Air Liquide 2500 N 11th Street Reading PA 19605	Mailing Address: P O Box 13577 Reading PA 19612-3577
Diesel Service, Inc. 150 Lehigh Street Reading PA 19601	Mailing Address: P O Box 14325 Reading PA 19612-4325
NGK Metals Corporation 150 Tuckerton Road Temple PA 19560	Mailing Address: 917 US Highway 11 South Sweetwater TN 37874
Paragon Optical 644-658 S 7th Street Reading PA 19602	Mailing Address: 658 S 7th Street Reading PA 19602
Pennsylvania Truck Centers 4226 Pottsville Pike Reading PA 19605	Mailing Address: P O Box 13337 Reading PA 19612-3337
Penske Truck Leasing 255 Penske Plaza Reading PA 19602	Mailing Address: P O Box 7635 Reading PA 19603-7635
Remcon Plastics 208 Chestnut Street Reading PA 19602	Mailing Address: Same
Rohm & Haas Chemicals LLC-R&D Lab 3 Commerce Drive Reading PA 19607	Mailing Address: Same
Ultra Wash of Philadelphia 1619 N 9th Street Reading PA 19604	Mailing Address: P O Box 1130 North Cape May NJ 08204
Unique Pretzel Bakery 215 E. Bellevue Avenue Reading PA 19605	Mailing Address: Same
Van Bennett Food Company 101 N Carroll Street Reading PA 19611	Mailing Address: Same

WORLD electronics
3000 Kutztown Road
Reading PA 19605

Mailing Address:
Same

APPENDIX 2

COMPLIANCE MONITORING PROGRAM

2011 COMPLIANCE MONITORING PROGRAM

Significant Industrial Users

Industry Name	Control Document		Inspection and Sampling Frequency					
			Inspections		Sampling Visits		Self-Monitoring	
	Issuance Date	Expiration Date	Performed	Proposed	Performed	Proposed	Performed	Required
Akzo Nobel Coatings	June 1, 2010	March 31, 2012	1	1	12	12	12	12
Aramark Uniform Services	July 1, 2010	June 30, 2013	1	1	4	4	12	12
The Bachman Company	January 1, 2012	December 31, 2014	1	1	4	4	4	4
Berks Packing Company	January 1, 2010	December 31, 2012	1	1	4	4	12	12
Carpenter Technology	October 1, 2009	September 30, 2012	1	1	4	4	4	4
Cloister Car Wash and Lube	July 1, 2009	June 30, 2012	1	1	4	4	4	4
Clover Farms Dairy	October 1, 2009	September 30, 2012	1	1	12	12	12	12
Crescent Brass Manufacturing	October 1, 2011	September 30, 2014	1	1	3	1	2	2
Cryovac Food Packaging Division	April 1, 2010	March 31, 2013	1	1	2	2	2	2
Dairy Farmers of America	April 1, 2011	March 31, 2014	1	1	13	12	12	12
Evergreen Community Power	October 1, 2011	September 30, 2014	1	1	4	4	2	2
Exide Technologies - Plant One	January 1, 2009	December 31, 2011	1	1	0	0	4	4
Plant Two	January 1, 2009	December 31, 2011	1	1	5	4	2	2
Reading Recycling	January 1, 2009	December 31, 2011	1	1	3	4	3	4
Hofmann Industries	April 1, 2009	March 31, 2012	1	1	2	2	18	4
IFS Industries (International Foundry Supply)	October 1, 2011	September 30, 2014	1	1	12	12	13	12
Interstate Container	October 1, 2010	September 30, 2013	1	1	4	4	4	4
Lentz Milling	July 1, 2010	June 30, 2013	1	1	2	2	4	4
National/Yorgey's Cleaners	January 1, 2012	December 31, 2014	1	1	5	4	2	2
Orograin Bakeries	July 1, 2011	June 30, 2014	1	1	5	4	2	2
Packaging Corpporation of America	May 1, 2011	March 31, 2014	1	1	1	1	0	0
Prizer Painter Stove Works	July 1, 2011	June 30, 2014	1	1	4	4	4	4
Quadrant EEP USA	April 1, 2009	March 31, 2012	1	1	1	1	2	2
Quaker Maid Meats	October 1, 2009	September 30, 2012	1	1	4	4	4	4
Reading Eagle Company	January 1, 2012	December 31, 2014	1	1	2	2	2	2
Reading Plating & Polishing Works	July 1, 2011	June 30, 2014	1	1	4	4	4	4
Reading Truck Body	October 1, 2010	September 30, 2013	1	1	4	4	12	12
Reitech Corporation	October 1, 2010	September 30, 2013	1	1	2	2	2	2
Sealed Air Corporation	January 1, 2010	December 31, 2012	1	1	16	12	50	52
St Joseph Medical Center Downtown	April 1, 2010	March 31, 2013	1	1	5	4	13	12
Summit Steel and Manufacturing	October 1, 2009	September 30, 2012	1	1	2	2	2	2

OK term 9/11

OK study 11/11

flood - see page 4

2011 COMPLIANCE MONITORING PROGRAM

Significant Industrial Users

Industry Name	Control Document		Inspection and Sampling Frequency					
			Inspections		Sampling Visits		Self-Monitoring	
	Issuance Date	Expiration Date	Performed	Proposed	Performed	Proposed	Performed	Required
Sun Rich Fresh Foods	January 1, 2011	December 31, 2013	1	1	13	12	12	12
Sweet Street Desserts	April 1, 2009	March 31, 2012	1	1	6	4	4	4
Termaco USA	July 1, 2011	June 30, 2014	1	1	4	2	4	4
Tom Sturgis Pretzels	January 1, 2012	December 31, 2014	1	1	4	4	4	4
United Corrstack	October 1, 2010	September 30, 2013	1	1	14	12	12	12
Yuasa Battery	April 1, 2009	March 31, 2012	1	1	4	4	5	4
		Total	**37**	**37**	**194**	**177**	**266**	**252**

NOTES:

Dairy Farmers of America: The new permit for Dietrich's Milk Products, effective April 1, 2011, was issued to Dairy Farmers of America. This was due to a change in the owner and operator of the company. There was no change in operations or authorized representatives.

Orograin Bakeries: The new permit for Orograin Manufacturing Bakeries, effective July 1, 2011, was issued to Orograin Bakeries. There was no change in ownership. The current owners abbreviated the name. There was no change in operations or authorized representatives.

Prizer Painter Stove Works: The new permit for Prizer Works, effective July 1, 2011 was issued to Prizer Painter Stove Works. This does not represent a change in ownership. It was a corporate decision by the current owners. There was no change in operations or authorized representatives.

2011 COMPLIANCE MONITORING PROGRAM

Non-Significant Industrial Users

Industry Name	Control Document		Inspection and Sampling Frequency					
			Inspections		Sampling Visits		Self-Monitoring	
	Issuance Date	Expiration Date	Performed	Proposed	Performed	Proposed	Performed	Required
Air Liquide	July 1, 2009	June 30, 2012	0	0	1	1	2	2
Diesel Service	October 1, 2011	September 30, 2014	0	0	4	4	2	2
NGK Metals Corporation	April 1, 2009	March 31, 2012	0	0	4	4	2	2
Paragon Optical	January 1, 2010	December 31, 2012	0	0	4	4	2	2
Pennsylvania Truck Centers	October 1, 2011	September 30, 2014	0	0	4	4	2	2
Penske Truck Leasing	January 1, 2012	December 31, 2014	0	0	4	4	4	4
Remcon Plastics	April 1, 2011	March 31, 2014	0	0	1	1	1	1
Rohm & Haas Chemicals LLC - R&D Lab	July 1, 2009	June 30, 2012	0	0	1	1	1	1
Ultra Wash of Philadelphia	April 1, 2010	March 31, 2013	0	0	0	0	4	4
Unique Pretzel Bakery	October 1, 2009	September 30, 2012	0	0	2	2	2	2
Van Bennett Food Company	October 1, 2009	September 30, 2012	0	0	3	2	4	4
WORLD electronics	January 1, 2011	December 31, 2013	0	0	2	2	2	2
		Total	**0**	**0**	**30**	**29**	**28**	**28**

NOTES:

APPENDIX 3

INCREASED INDUSTRIAL SAMPLING

INCREASED INDUSTRIAL SAMPLING FOR 2011

INDUSTRY (SIU)	Additional City Sampling Performed	Parameters Tested	Number of Extra Tests	Additional Self Monitoring Sampling Performed	Parameters Tested	Number of Extra Tests
Akzo Nobel Coatings						
Aramark Uniform Services						
The Bachman Company						
Berks Packing Company						
Carpenter Technology						
Cloister Car Wash and Lube						
Clover Farms Dairy		oil and grease	4			
Crescent Brass Manufacturing	2	As,Cd,Cr,Cu,Pb,Hg,Ni,Ag	2			
		Zn, pH,cyanide, phenols	2			
		oil/grease (HEM,SGT-HEM)	2			
Cryovac Food Packaging Division						
Dairy Farmers of America		oil and grease	1			
Evergreen Community Power						
Exide - Plant One						
- Plant Two						
- Reading Recycling					copper	1
					zinc	2
Hofmann Industries				14	chromium, zinc	14
IFS Industries						
Interstate Container						
Lentz Milling						
National/Yorgey's Cleaners	1	oil/grease (HEM,SGT-HEM)	1			
Orograin Bakeries outfall 001	1	oil and grease	1			
Packaging Corp. of America						
Prizer Painter Stove Works						
Quadrant EPP USA						
Quaker Maid Meats outfall 003						
outfall 004						
Reading Eagle Company						
Reading Plating & Polishing Works						
Reading Truck Body						
Reitech Corporation						
Sealed Air Corporation						

INCREASED INDUSTRIAL SAMPLING FOR 2011

INDUSTRY (SIU)	Additional City Sampling Performed	Parameters Tested	Number of Extra Tests	Additional Self Monitoring Sampling Performed	Parameters Tested	Number of Extra Tests
St Joseph Downtown-outfall 006	1	mercury	1	1	mercury	1
Summit Steel and Manufacturing						
Sun Rich Fresh Foods						
Sweet Street Desserts	1	oil and grease, pH	1			
Termaco USA	2	phenols	2			
Tom Sturgis Pretzels						
United Corrstack					oil/grease (HEM,SGT-HEM)	8
Yuasa Battery				1	lead, outfall 001	1

NOTES:

The Bachman Company

The SOP for City testing was changed, effective the second quarter of 2012, to increase testing for mercury from annually to quarterly. Although there have been no violations since the 3rd quarter of 2007, more frequent testing will ensure continued compliance.

Packaging Corp. of America

A 35 month permit, effective May 1, 2011, was issued to this new company. Quarterly testing for free cyanide was included in the testing requirements in the permit since no data is available for this parameter. The SOP for City testing also includes quarterly testing for free cyanide.

Orograin Bakeries

A three year permit, effective July 1, 2011, was issued. The permit continues the requirement for two resamples after a violation for any permit parameter.

Reading Eagle Company

The SOP for City testing was changed, effective the first quarter of 2012, to increase testing for copper from annually to semiannually. There have been no violations at the new sampling point. In 2009, the company completed a building expansion and installation of a new press changing the nature of its discharge. The discharge now presents less of a concern with compliance. However, an increase in testing at the new sampling point will provide more data to ensure compliance.

Reading Plating & Polishing

A three year permit, effective July 1, 2011, was issued. Quarterly testing for free cyanide was added to the testing requirements in this permit. The SOP for City testing was changed, effective the fourth quarter of 2011, to add testing for free cyanide on a quarterly basis.

Termaco USA

A three year permit, effective July 1, 2011, was issued. TTO certification was allowed is lieu of testing. Testing for VOC was changed from twice to once a year. The SOP for City testing was changed to require that one of the two annual testings is done when the rinse tanks are discharged. This is done on a weekly basis.

INCREASED INDUSTRIAL SAMPLING FOR 2011

INDUSTRY (non-SIU)	Additional City Sampling Performed	Parameters Tested	Number of Extra Tests	Additional Self Monitoring Sampling Performed	Parameters Tested	Number of Extra Tests
Air Liquide						
Diesel Service						
Getty Petroleum Marketing						
NGK Metals Corporation						
Paragon Optical						
Pennsylvania Truck Centers						
Penske Truck Leasing						
Perception						
Remcon Plastics						
Rohm and Haas - R&D Lab						
Ultra Wash of Philadelphia						
Unique Pretzel Bakery						
Van Bennett Food Company	1	oil and grease	1			
WORLD electronics						

NOTES:

APPENDIX 4

FACILITIES IN SNC FOR 2011
THAT WERE ALSO IN SNC FOR 2010

Significant Industrial Users in SNC for 2011 that were also in SNC for 2010

Facility	Reason for Significant Non-Compliance 2010	2011	Status at the end of 2011
Cloister Car Wash & Lube	TRC: zinc	TRC & chronic: zinc Failure to Report	Compliance Compliance
Clover Farms Dairy	TRC & chronic: oil & grease (HEM)	TRC: oil and grease (HEM)	Compliance
Exide Technologies- Reading Recycling	TRC & chronic: copper TRC: zinc	TRC & chronic: copper TRC & chronic: zinc TRC: lead	SNC SNC Compliance
National/Yorgey's Cleaners	Failure to Resample	TRC: oil and grease (HEM) TRC: oil and grease (SGT-HEM)	Compliance Compliance
Orograin Bakeries	Failure to Resample TRC: zinc	TRC: oil and grease (HEM)	Compliance
Termaco USA	TRC & chronic: phenols	Failure to Report	Compliance

Non Significant Industrial Users in SNC for 2011 that were also in SNC for 2010

Facility	Reason for Significant Non-Compliance 2010	2011	Status at the end of 2011
Paragon Optical Company	TRC & chronic: copper TRC: lead	TRC & chronic: copper Failure to Resample	SNC SNC
Unique Pretzel Bakery	TRC & chronic: zinc	TRC: chromium	Compliance

APPENDIX 5

NEWSPAPER LISTING OF SIGNIFICANT VIOLATORS

{ No.0000257725 Term: 2012

Proof of Publication of Notice in Reading Eagle

Under Act No. 587, Approved May 16,1929.

Commonwealth of Pennsylvania,
County of Berks } ss:

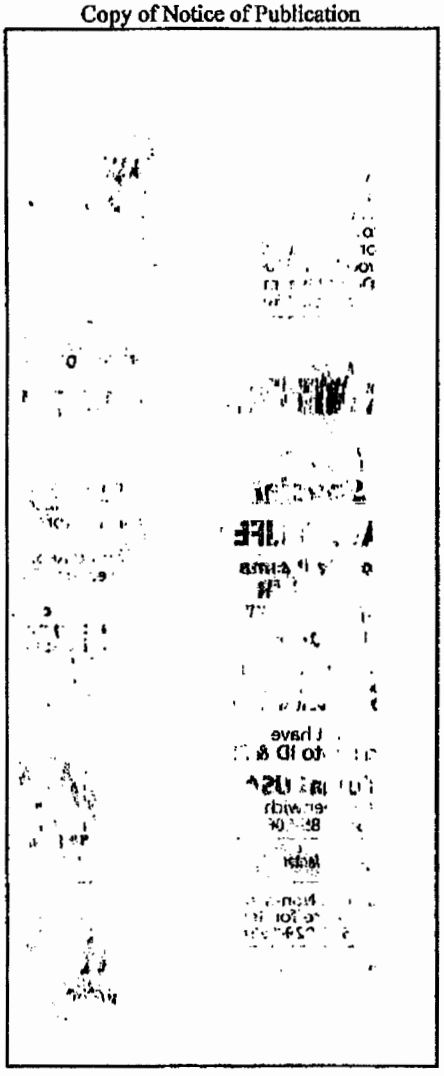
Lynn Schittler, Assistant Secretary, READING EAGLE COMPANY, of the County and Commonwealth aforesaid, being duly sworn, deposes and says that the READING EAGLE established January 28, 1868 is a newspaper of general circulation published at 345 Penn Street, City of Reading, County and State aforesaid, and that the printed notice or publication attached hereto is exactly the same as printed and published in the regular edition and issues of the said READING EAGLE on the following dates, viz.:

Reading Eagle **Sunday, March 18, 2012, A.D.**

Effective July 1, 2002 Reading Times Ceased Publication. The Reading Eagle will be a daily morning and Sunday edition.

Affiant further deposes that this person is duly authorized by READING EAGLE COMPANY, a corporation, publisher of said READING EAGLE, a newspaper of general circulation, to verify the foregoing statement under oath, and affiant is not interested in the subject matter of the aforesaid notice or advertisement, and that all allegations in the foregoing statements as to time, place, character of publication are true.

Copy of Notice of Publication



Lynn Schittler

Sworn to and subscribed before me this 19th day of March, 2012

Theresa M. Sassaman
Notary

Statement of Advertising Costs

INDUSTRIAL PRETREATMENT

CITY OF READING
ACCOUNTS PAYABLE, ROOM 201A
815 WASHINGTON ST.
READING, PA 19601

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
THERESA M. SASSAMAN, NOTARY PUBLIC
CITY OF READING, BERKS COUNTY
MY COMMISSION EXPIRES OCT. 23, 2014

To READING EAGLE, DR.:

For publishing the notice of publication attached hereto on the above stated dates	$1,205.40
Probating same	$5.00
Total	$1,210.40

PUBLIC NOTICE

As a requirement of the City of Reading's National Pollutant Discharge Elimination System (NPDES) Permit number PA0026549, the City is required to operate an industrial pretreatment program in accordance with the Clean Water Act and the General Pretreatment Regulations (40 CFR 403).

Part 40 CFR 403.8 (f) (2) (viii) of the General Regulations as well as Section 9 of the City of Reading's Sewer Use Ordinance 17-98, requires annual publication of a list of all industrial users which were in significant non-compliance (SNC) at any time during the previous twelve (12) months.

The list of significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2011 to December 31, 2011 along with their current compliance status is as follows:

Cloister Car Wash and Lube
1 Cloister Court
Sinking Spring PA 19608
City of Reading Industrial Waste Permit No. 80A
Nature of violations:
1st Quarter – TRC and chronic violation of the zinc limit listed in its permit
2nd Quarter – TRC violation of the zinc limit listed in its permit
3rd Quarter – Failure to Report
Current compliance status:
In 2010, the company segregated the zinc containing portion of the waste stream so that it can be pretreated prior to discharge. After the violations in the first quarter, the company increased the schedule for pumping out its settling tanks and began to investigate upgrading the zinc pretreatment method, if necessary. SNC for the second quarter is based on the violations that occurred in the first quarter. The company has returned to compliance. The self-monitoring report submitted for the third quarter was incomplete. Some of the required testing was not done. The missing tests were performed, submitted to the City and were in compliance.

Clover Farms Dairy
3300 Pottsville Pike
Reading PA 19605
City of Reading Industrial Waste Permit No. 47H
Nature of violation:
2nd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit
Current compliance status:
The company had a Consent Agreement with the City of Reading that was signed on December 29, 2006 and terminated on July 31, 2008. The agreement was for the construction of a system to achieve compliance with the oil and grease and pH limits in its permit. The system that was installed did not result in compliance. In 2009 the company began plans for a new pretreatment system while it continued to work on changes to the existing system to achieve compliance. In 2011 the company initiated changes to the existing system that did result in compliance. The company is now working on plans to automate these changes and to add a system for pH compliance.

Exide Technologies – Reading Recycling
Spring Valley Road and Nolan Street
Reading PA 19605
City of Reading Industrial Waste Permit No. 34G
Nature of violations:
3rd Quarter – TRC violation of the copper limit listed in its permit
3rd Quarter – TRC violation of the zinc limit listed in its permit
4th Quarter – TRC violation of the lead limit listed in its permit
4th Quarter – TRC and chronic violation of the copper limit listed in its permit
4th Quarter – TRC and chronic violation of the zinc limit listed in its permit
Current compliance status:
The discharge to the sampling point was sanitary, not industrial. SNC in the third quarter is based on one violation in three sampling events for copper and zinc. After these violations occurred, the company removed all known bathroom fixtures to eliminate any discharge to the sampling point. SNC for the fourth quarter ie based on the violations that occurred in the third quarter. The company could not return to compliance. Sampling could not be done in the fourth quarter because there was no discharge to the sampling point. This sampling point will be evaluated for a zero discharge permit.

Hofmann Industries, Inc.
3145 Shillington Road
Sinking Spring PA 19608
City of Reading Industrial Waste Permit No. 18G
Nature of violation:
1st Quarter – Chronic violation of the maximum monthly average limit for zinc listed in its permit
Current compliance status:
This is a categorical industrial user and therefore has a maximum monthly average limit for a number of parameters including zinc. There is a pretreatment system in operation. The cause of the violation on the day that caused the monthly average violation could not be determined. The company performed six additional voluntary tests later in the month and each result was below the monthly average limit for zinc. The company returned to compliance and had no other violations for the rest of the year.

National/Yorgey's Cleaners
1700 Fairview Street
Reading PA 19606
City of Reading Industrial Waste Permit No. 6G
Nature of violations:
3rd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit
3rd Quarter – TRC violation of the oil and grease (SGT-HEM) limit listed in its permit
Current compliance status:
SNC is based on one violation each for HEM and SGT-HEM in the two tests conducted. Both violations occurred during the same sampling event. The cause of the violations is unknown. The company has returned to compliance.

Orognain Manufacturing Bakeries.
640 Park Avenue
Reading PA 19611
City of Reading Industrial Waste Permit No. 16H
Nature of violation:
3rd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit at outfall 001
Current compliance status:
SNC is the result of one violation in three tests conducted. The company identified the probable cause of the violation, took corrective action and returned to compliance.

St Joseph Medical Center Downtown
145 N. 6th Street
Reading PA 19601
City of Reading Industrial Waste Permit No. 65F
Nature of violations:
2nd Quarter – TRC and chronic violation of the mercury limit listed in its permit at outfall 006
3rd Quarter – TRC and chronic violation of the mercury limit listed in its permit at outfall 006
4th Quarter – TRC violation of the mercury limit listed in its permit at outfall 006
4th Quarter – Failure to Resample
Current compliance status:
The violations for mercury are attributed to problems with the pumps at the lift station where sampling is done. The pumps were replaced and the company returned to compliance in testings that were conducted in the fourth quarter. The City's limit for mercury discharge is extremely low.
The company failed to resample and report within 30 days following a mercury violation on a test that the company voluntarily conducted. The resample was conducted and was in compliance.

Termaco USA, Inc.
171 Tuckerton Road
Reading PA 19605
City of Reading Industrial Waste Permit No. 83A
Nature of violation:
3rd Quarter – Failure to Report
Current compliance status:
The self-monitoring report for the third quarter was not submitted with 30 days after the due date. The report was subsequently submitted to the City and was in compliance.

The list of non-significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2011 to December 31, 2011 along with their current compliance status ie as follows:

Paragon Optical Company Inc.
644-658 South 7th Street
Reading PA 19602
City of Reading Industrial Waste Permit No. M020C
Nature of violations:
1st Quarter – TRC violation of the copper limit listed in its permit
2nd Quarter – TRC and chronic violation of the copper limit listed in its permit
3rd Quarter – Failure to Resample
4th Quarter – TRC violation of the copper limit listed in its permit
Current compliance status:
The company has been monitoring the discharge and cleanouts of the solids retention sump more closely and this has controlled the discharge of metals with the exception of copper. The company did not return to compliance for copper by the end of the year. The City will be meeting with the company in 2012 to seek a resolution to the violations that have occurred. The company failed to resample and report within 30 days following a copper violation. The required resample has not yet been submitted to the City to evaluate compliance.

Unique Pretzel Bakery
215 E. Bellevue Avenue
Reading PA 19605
City of Reading Industrial Waste Permit No. M029D
Nature of violation:
2nd Quarter – TRC violation of the chromium limit listed in its permit
Current compliance status:
SNC is based on one violation in two sampling events conducted in the first half of the year. The company installed an equalization tank for more effective sampling and returned to compliance.

Van Bennett Food Company
101 N. Carroll Street
Reading PA 19611
City of Reading Industrial Waste Permit No. M030D
Nature of violations:
2nd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit
3rd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit
Current compliance status:
The exact cause of the violations is unknown but the company has reviewed procedures with its employees to control its oil and grease discharge. The company has returned to compliance.

If any additional information is required, please contact Deborah A.S. Hoag, PE, Utilities Division Manager, or Jacqueline C. Hendricks, Environmental Program Coordinator, at 610-655-6121.

PUBLIC NOTICE

As a requirement of the City of Reading's National Pollutant Discharge Elimination System (NPDES) Permit number PA0026549, the City is required to operate an industrial pretreatment program in accordance with the Clean Water Act and the General Pretreatment Regulations (40 CFR 403).

Part 40 CFR 403.8 (f) (2) (viii) of the General Regulations as well as Section 9 of the City of Reading's Sewer Use Ordinance 17-98, requires annual publication of a list of all industrial users which were in significant non-compliance (SNC) at any time during the previous twelve (12) months.

The list of significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2011 to December 31, 2011 along with their current compliance status is as follows:

Cloister Car Wash and Lube
1 Cloister Court
Sinking Spring PA 19608
City of Reading Industrial Waste Permit No. 80A
Nature of violations:
1st Quarter – TRC and chronic violation of the zinc limit listed in its permit
2nd Quarter – TRC violation of the zinc limit listed in its permit
3rd Quarter – Failure to Report
Current compliance status:
In 2010, the company segregated the zinc containing portion of the waste stream so that it can be pretreated prior to discharge. After the violations in the first quarter, the company increased the schedule for pumping out its settling tanks and began to investigate upgrading the zinc pretreatment method, if necessary. SNC for the second quarter is based on the violations that occurred in the first quarter. The company has returned to compliance. The self-monitoring report submitted for the third quarter was incomplete. Some of the required testing was not done. The missing tests were performed, submitted to the City and were in compliance.

Clover Farms Dairy
3300 Pottsville Pike
Reading PA 19605
City of Reading Industrial Waste Permit No. 47H
Nature of violation:
2nd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit
Current compliance status:
The company had a Consent Agreement with the City of Reading that was signed on December 29, 2006 and terminated on July 31, 2008. The agreement was for the construction of a system to achieve compliance with the oil and grease and pH limits in its permit. The system that was installed did not result in compliance. In 2009 the company began plans for a new pretreatment system while it continued to work on changes to the existing system to achieve compliance. In 2011 the company initiated changes to the existing system that did result in compliance. The company is now working on plans to automate these changes and to add a system for pH compliance.

Exide Technologies – Reading Recycling
Spring Valley Road and Nolan Street
Reading PA 19605
City of Reading Industrial Waste Permit No. 34G
Nature of violations:
3rd Quarter – TRC violation of the copper limit listed in its permit
3rd Quarter – TRC violation of the zinc limit listed in its permit
4th Quarter – TRC violation of the lead limit listed in its permit
4th Quarter – TRC and chronic violation of the copper limit listed in its permit
4th Quarter – TRC and chronic violation of the zinc limit listed in its permit
Current compliance status:
The discharge to the sampling point was sanitary, not industrial. SNC in the third quarter is based on one violation in three sampling events for copper and zinc. After these violations occurred, the company removed all known bathroom fixtures to eliminate any discharge to the sampling point. SNC for the fourth quarter is based on the violations that occurred in the third quarter. The company could not return to compliance. Sampling could not be done in the fourth quarter because there was no discharge to the sampling point. This sampling point will be evaluated for a zero discharge permit.

Hofmann Industries, Inc.
3145 Shillington Road
Sinking Spring PA 19608
City of Reading Industrial Waste Permit No. 18G
Nature of violation:
1st Quarter – Chronic violation of the maximum monthly average limit for zinc listed in its permit
Current compliance status:
This is a categorical industrial user and therefore has a maximum monthly average limit for a number of parameters including zinc. There is a pretreatment system in operation. The cause of the violation on the day that caused the monthly average violation could not be determined. The company performed six additional voluntary tests later in the month and each result was below the monthly average limit for zinc. The company returned to compliance and had no other violations for the rest of the year.

National/Yorgey's Cleaners
1700 Fairview Street
Reading PA 19606
City of Reading Industrial Waste Permit No. 6G
Nature of violations:
3rd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit
3rd Quarter – TRC violation of the oil and grease (SGT-HEM) limit listed in its permit
Current compliance status:
SNC is based on one violation each for HEM and SGT-HEM in the two tests conducted. Both violations occurred during the same sampling event. The cause of the violations is unknown. The company has returned to compliance.

Orograin Manufacturing Bakeries,
640 Park Avenue
Reading PA 19611
City of Reading Industrial Waste Permit No. 16H
Nature of violation:
3rd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit at outfall 001
Current compliance status:
SNC is the result of one violation in three tests conducted. The company identified the probable cause of the violation, took corrective action and returned to compliance.

St Joseph Medical Center Downtown
145 N. 6th Street
Reading PA 19601
City of Reading Industrial Waste Permit No. 65F
Nature of violations:
2nd Quarter – TRC and chronic violation of the mercury limit listed in its permit at outfall 006
3rd Quarter – TRC and chronic violation of the mercury limit listed in its permit at outfall 006
4th Quarter – TRC violation of the mercury limit listed in its permit at outfall 006
4th Quarter – Failure to Resample
Current compliance status:
The violations for mercury are attributed to problems with the pumps at the lift station where sampling is done. The pumps were replaced and the company returned to compliance in testings that were conducted in the fourth quarter. The City's limit for mercury discharge is extremely low.
The company failed to resample and report within 30 days following a mercury violation on a test that the company voluntarily conducted. The resample was conducted and was in compliance.

Termaco USA, Inc.
171 Tuckerton Road
Reading PA 19605
City of Reading Industrial Waste Permit No. 83A
Nature of violation:
3rd Quarter – Failure to Report
Current compliance status:
The self-monitoring report for the third quarter was not submitted with 30 days after the due date. The report was subsequently submitted to the City and was in compliance.

The list of non-significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2011 to December 31, 2011 along with their current compliance status is as follows:

Paragon Optical Company Inc.
644-658 South 7th Street
Reading PA 19602
City of Reading Industrial Waste Permit No. M020C
Nature of violations:
1st Quarter – TRC violation of the copper limit listed in its permit
2nd Quarter – TRC and chronic violation of the copper limit listed in its permit
3rd Quarter – Failure to Resample
4th Quarter – TRC violation of the copper limit listed in its permit
Current compliance status:
The company has been monitoring the discharge and cleanouts of the solids retention sump more closely and this has controlled the discharge of metals with the exception of copper. The company did not return to compliance for copper by the end of the year. The City will be meeting with the company in 2012 to seek a resolution to the violations that have occurred. The company failed to resample and report within 30 days following a copper violation. The required resample has not yet been submitted to the City to evaluate compliance.

Unique Pretzel Bakery
215 E. Bellevue Avenue
Reading PA 19605
City of Reading Industrial Waste Permit No. M029D
Nature of violation:
2nd Quarter – TRC violation of the chromium limit listed in its permit
Current compliance status:
SNC is based on one violation in two sampling events conducted in the first half of the year. The company installed an equalization tank for more effective sampling and returned to compliance.

Van Bennett Food Company
101 N. Carroll Street
Reading PA 19611
City of Reading Industrial Waste Permit No. M030D
Nature of violations:
2nd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit
3rd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit
Current compliance status:
The exact cause of the violations is unknown but the company has reviewed procedures with its employees to control its oil and grease discharge. The company has returned to compliance.

If any additional information is required, please contact Deborah A.S. Hoag, PE, Utilities Division Manager, or Jacqueline C. Hendricks, Environmental Program Coordinator, at 610-655-6121.

PUBLIC NOTICE

As a requirement of the City of Reading's National Pollutant Discharge Elimination System (NPDES) Permit number PA0026549, the City is required to operate an industrial pretreatment program in accordance with the Clean Water Act and the General Pretreatment Regulations (40 CFR 403).

Part 40 CFR 403.8 (f) (2) (viii) of the General Regulations as well as Section 9 of the City of Reading's Sewer Use Ordinance 17-98, requires annual publication of a list of all industrial users which were in significant non-compliance (SNC) at any time during the previous twelve (12) months.

The list of significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2011 to December 31, 2011 along with their current compliance status is as follows:

Cloister Car Wash and Lube
1 Cloister Court
Sinking Spring PA 19608
City of Reading Industrial Waste Permit No. 80A
Nature of violations:
1st Quarter – TRC and chronic violation of the zinc limit listed in its permit
2nd Quarter – TRC violation of the zinc limit listed in its permit
3rd Quarter – Failure to Report
Current compliance status:
In 2010, the company segregated the zinc containing portion of the waste stream so that it can be pretreated prior to discharge. After the violations in the first quarter, the company increased the schedule for pumping out its settling tanks and began to investigate upgrading the zinc pretreatment method, if necessary. SNC for the second quarter is based on the violations that occurred in the first quarter. The company has returned to compliance. The self-monitoring report submitted for the third quarter was incomplete. Some of the required testing was not done. The missing tests were performed, submitted to the City and were in compliance.

Clover Farms Dairy
3300 Pottsville Pike
Reading PA 19605
City of Reading Industrial Waste Permit No. 47H
Nature of violation:
2nd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit
Current compliance status:
The company had a Consent Agreement with the City of Reading that was signed on December 29, 2006 and terminated on July 31, 2008. The agreement was for the construction of a system to achieve compliance with the oil and grease and pH limits in its permit. The system that was installed did not result in compliance. In 2009 the company began plans for a new pretreatment system while it continued to work on changes to the existing system to achieve compliance. In 2011 the company initiated changes to the existing system that did result in compliance. The company is now working on plans to make these changes permanent and to add a system for pH compliance.

Exide Technologies – Reading Recycling
Spring Valley Road and Nolan Street
Reading PA 19605
City of Reading Industrial Waste Permit No. 34G
Nature of violations:

3rd Quarter – TRC violation of the copper limit listed in its permit
3rd Quarter – TRC violation of the zinc limit listed in its permit
4th Quarter – TRC violation of the lead limit listed in its permit
4th Quarter – TRC and chronic violation of the copper limit listed in its permit
4th Quarter – TRC and chronic violation of the zinc limit listed in its permit
Current compliance status:
The discharge to the sampling point was sanitary, not industrial. SNC in the third quarter is based on one violation in three sampling events for copper and zinc. After these violations occurred, the company removed all known bathroom fixtures to eliminate any discharge to the sampling point. SNC for the fourth quarter is based on the violations that occurred in the third quarter. The company could not return to compliance. Sampling could not be done in the fourth quarter because there was no discharge to the sampling point.

Hofmann Industries, Inc.
3145 Shillington Road
Sinking Spring PA 19608
City of Reading Industrial Waste Permit No. 18G
Nature of violation:
1st Quarter – Chronic violation of the maximum monthly average limit for zinc listed in its permit
Current compliance status:
This is a categorical industrial user and therefore has a maximum monthly average limit for a number of parameters including zinc. There is a pretreatment system in operation. The cause of the violation on the day that caused the monthly average violation could not be determined. The company performed six additional voluntary tests later in the month and each result was below the monthly average limit for zinc. The company returned to compliance and had no other violations for the rest of the year.

National/Yorgey's Cleaners
1700 Fairview Street
Reading PA 19606
City of Reading Industrial Waste Permit No. 6G
Nature of violations:
3rd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit
3rd Quarter – TRC violation of the oil and grease (SGT-HEM) limit listed in its permit
Current compliance status:
SNC is based on one violation each for HEM and SGT-HEM in the two tests conducted. Both violations occurred during the same sampling event. The cause of the violations is unknown. The company has returned to compliance.

Orograin Manufacturing Bakeries.
640 Park Avenue
Reading PA 19611
City of Reading Industrial Waste Permit No. 16H
Nature of violation:
3rd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit at outfall 001
Current compliance status:
SNC is the result of one violation in three tests conducted. The company identified the probable cause of the violation, took corrective action and returned to compliance.

St Joseph Medical Center Downtown
145 N. 6th Street

Reading PA 10601
City of Reading Industrial Waste Permit No. 65F
Nature of violations:
2nd Quarter – TRC and chronic violation of the mercury limit listed in its permit at outfall 006
3rd Quarter – TRC and chronic violation of the mercury limit listed in its permit at outfall 006
4th Quarter – TRC violation of the mercury limit listed in its permit at outfall 006
4th Quarter – Failure to Resample
Current compliance status:
The violations for mercury are attributed to problems with the pumps at the lift station where sampling is done. The pumps were replaced and the company returned to compliance in testings that were conducted in the fourth quarter. The City's limit for mercury discharge is extremely low.
The company failed to resample and report within 30 days following a mercury violation on a test that the company voluntarily conducted. The resample was conducted and was in compliance.

Termaco USA, Inc.
171 Tuckerton Road
Reading PA 10605
City of Reading Industrial Waste Permit No. 83A
Nature of violation:
3rd Quarter – Failure to Report
Current compliance status:
The self-monitoring report for the third quarter was not submitted with 30 days after the due date. The report was subsequently submitted to the City and was in compliance.

The list of non-significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2011 to December 31, 2011 along with their current compliance status is as follows:

Paragon Optical Company Inc.
644-658 South 7th Street
Reading PA 19602
City of Reading Industrial Waste Permit No. M020C
Nature of violations:
1st Quarter – TRC violation of the copper limit listed in its permit
2nd Quarter – TRC and chronic violation of the copper limit listed in its permit
3rd Quarter – Failure to Resample
4th Quarter – TRC violation of the copper limit listed in its permit
Current compliance status:
The company has been monitoring the discharge and cleanouts of the solids retention sump more closely and this has controlled the discharge of metals with the exception of copper. The company did not return to compliance for copper by the end of the year. The City will be meeting with the company in 2012 to seek a resolution to the violations that have occurred. The company failed to resample and report within 30 days following a copper violation. The required resample has not yet been submitted to the City.

Unique Pretzel Bakery
215 E. Bellevue Avenue
Reading PA 19605
City of Reading Industrial Waste Permit No. M029D
Nature of violation:
2nd Quarter – TRC violation of the chromium limit listed in its permit

Current compliance status:
SNC is based on one violation in two sampling events conducted in the first half of the year. The company installed an equalization tank for more effective sampling and returned to compliance.

Van Bennett Food Company
101 N. Carroll Street
Reading PA 19611
City of Reading Industrial Waste Permit No. M030D
Nature of violations:
2nd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit
3rd Quarter – TRC violation of the oil and grease (HEM) limit listed in its permit
Current compliance status:
The exact cause of the violations is unknown but the company has reviewed procedures with its employees to control its oil and grease discharge. The company has returned to compliance.

If any additional information is required, please contact Deborah A.S. Hoag, PE, Utilities Division Manager, or Jacqueline C. Hendricks, Environmental Program Coordinator, at 610-655-6121.

APPENDIX 6

ENFORCEMENT ACTIONS

2011 ENFORCEMENT ACTIONS
Significant Industrial Users

Industry Name	Enforcement Action				Nature of Violation
	Compliance Schedule	Notice of Violation	Admin Order	Penalty Assessed	
Akzo Nobel Coatings	None	None	None		
Aramark Uniform Services	None	5	None	$450	1 oil and grease (HEM), 2 oil and grease (SGT-HEM), 1 pH, 1 late report
The Bachman Company	None	None	None		
Berks Packing Company	None	1	None	$100	1 pH
Carpenter Technology	None	None	None		
Cloister Car Wash and Lube	None	7	None	$3,200 *	4 zinc, 2 copper, 1 Failure to Report
Clover Farms Dairy	None	11	None	$21,400 *	7 oil and grease (HEM), 4 pH
Crescent Brass Manufacturing	None	1	None	$100	1 copper
Cryovac Food Packaging	None	None	None		
Dairy Farmers of America	None	9	None	$16,450 *	4 oil and grease (HEM), 4 pH, 1 late report
Evergreen Community Power	None	None	None		
Exide - Plant One	None	None	None		
Plant Two	None	None	None		
Reading Recycling	None	4	None	$400	1 copper, 1 lead, 1 zinc, 1 oil and grease (HEM)
Hofmann Industries	None	2	None	$200	1 zinc - maximum monthly average, 1 zinc - daily maximum
IFS Industries	None	5	None	$14,000 *	5 oil and grease (HEM)
Interstate Container	None	None	None		
Lentz Milling	None	2	None	$350	1 zinc, 1 late sampling
National/Yorgey's Cleaners	None	3	None	$300	1 oil and grease (HEM), 1 oil and grease (SGT-HEM), 1 pH
Orograin Bakeries	None	3	None	$300	2 copper at outfall 001, 1 oil and grease (HEM) at outfall 001
Packaging Corp. of America	None	None	None		
Prizer Painter Stove Works	None	None	None		
Quadrant EEP USA	None	None	None		
Quaker Maid Meats	None	None	None		
Reading Eagle Company	None	None	None		
Reading Plating & Polishing	None	None	None		
Reading Truck Body	None	1	None	$250	1 late sampling
Reitech Corporation	None	None	None		
Sealed Air Corporation	None	2	None	$200	1 oil and grease (HEM), 1 oil and grease (SGT-HEM)
St Joseph Downtown	None	4	None	$800	3 mercury at outfall 006, 1 Failure to Resample
Summit Steel and Manufacturing	None	None	None		
Sun Rich Fresh Foods	None	1	None	$50	1 late report
Sweet Street Desserts	None	None	None		
Termaco USA	None	1	None	$1,000	1 Failure to Report

2011 ENFORCEMENT ACTIONS
Significant Industrial Users

Industry Name	Enforcement Action				Nature of Violation
	Compliance Schedule	Notice of Violation	Admin Order	Penalty Assessed	
Tom Sturgis Pretzels	None	2	None	$150	1 pH, 1 late report
United Corrstack	None	2	None	$150	1 oil and grease (SGT-HEM), 1 late report
Yuasa Battery	None	None	None		
TOTAL	0	66	0	$59,850	

Initial fines for violations are as follows:

Failure to Report	$1,000
Failure to Resample	$500
Permit Limit violation	$100
Late report	$50
Late sampling/resampling	$250
Failure to Report Violations	$1,000
Failure to Report Monitoring Data	$1,000
Failure to maintain pretreatment records/documents on site	$500

NOTES ON FINES ADMINISTERED:

Cloister Car Wash and Lube: Zinc violations were fined at $500 per occurrence.

Clover Farms Dairy: Oil and grease violations (HEM) were escalated to $3000 per occurrence beginning the first quarter. 7 were fined at this rate.

Dietrich's Milk Products: Oil and grease violations (HEM) were fined at $4000 per occurrence.

IFS: Oil and grease violations (HEM) were fined at $2500 per occurrence in the first quarter. 2 were fined at this rate. Oil and grease (HEM) violatons were escalated to $3000 per occurrence beginning the second quarter. 3 were fined at this rate.

2011 ENFORCEMENT ACTIONS
Non-Significant Industrial Users

Industry Name	Enforcement Action				Nature of Violation
	Compliance Schedule	Notice of Violation	Admin Order	Penalty Assessed	
Air Liquide	None	None	None		
Diesel Service	None	None	None		
NGK Metals Corporation	None	None	None		
Paragon Optical	None	5	None	$900	4 copper, 1 Failure to Resample
Pennsylvania Truck Centers	None	None	None		
Penske Truck Leasing	None	1	None	$100	1 zinc
Remcon Plastics	None	None	None		
Rohm & Haas Chemicals - R&D Lab	None	None	None		
Ultra Wash of Philadelphia	None	None	None		
Unique Pretzel Bakery	None	3	None	$300	2 chromium, 1 pH
Van Bennett Food Company	None	2	None	$200	2 oil and grease (HEM)
WORLD electronics	None	None	None		
TOTAL	0	11	0	$1,500	

Initial fines for violations are as follows:

Failure to Report	$1,000
Failure to Resample	$500
Permit Limit violation	$100
Late report	$50
Late sampling/resampling	$250
Failure to Report Violations	$1,000
Failure to Report Monitoring Data	$1,000

APPENDIX 7

PAYMENT STATUS

City of Reading Industrial Pretreatment
Penalty Payment Status
Industrial Waste Register Bill Summary
1/1/2011 to 4/15/2012

License No.	Name	Issue Date	Comments	Billed	Paid	PaidDate
January 2011						
FINES - 54-07-00-3622						
331620	BERKS PACKING	01/05/2011	3RD Q 2010	$500.00	-$500.00	01/24/2011
334354	CARPENTER CORPORATION	01/05/2011	3RD Q 2010	$200.00	$0.00	###########
341901	CLOISTER CAR WASH AND LUBE	01/05/2011	3RD Q 2010	$200.00	-$200.00	02/03/2011
331117	CLOVER FARMS DAIRY	01/05/2011	3RD Q 2010	$15,000.00	-$15,000.00	02/07/2011
337763	CRESCENT BRASS MANUFACTURING	01/05/2011	3RD Q 2010	$100.00	-$100.00	01/24/2011
337763	~~CRESCENT BRASS MANUFACTURING~~	01/27/2011		$265.05	-$265.05	02/04/2011
334378	DIETRICH MILK PRODUCTS	01/05/2011	3RD Q 2010	$8,100.00	-$8,100.00	02/09/2011
337766	EXIDE CORPORATION	01/05/2011	3RD Q 2010	$100.00	$0.00	###########
				$24,465.05	**($24,165.05)**	
March 2011						
FINES - 54-07-00-3622						
331620	~~BERKS PACKING~~	03/07/2011	4TH Q 2010	$100.00	-$100.00	04/05/2011
341901	~~CLOISTER CAR WASH AND LUBE~~	03/07/2011	4TH Q 2010	$600.00	-$600.00	04/05/2011
331117	~~CLOVER FARMS DAIRY~~	03/07/2011	4TH Q 2010	$12,500.00	-$12,500.00	04/07/2011
337763	CRESCENT BRASS MANUFACTURING	03/04/2011	4TH Q 2010	$1,550.00	-$550.00	###########
337763	~~CRESCENT BRASS MANUFACTURING~~	03/04/2011		$265.05	-$265.05	03/10/2011
337763	~~CRESCENT BRASS MANUFACTURING~~	03/25/2011		$265.05	-$265.05	04/04/2011
334378	~~DIETRICH MILK PRODUCTS~~	03/07/2011	4TH Q 2010	$4,000.00	-$4,000.00	04/06/2011
337766	EXIDE CORPORATION	03/07/2011	4TH Q 2010	$1,000.00	$0.00	###########
338910	HOFMANN INDUSTRIES	03/04/2011	4TH Q 2010	$100.00	-$100.00	04/20/2011
331089	IFS INDUSTRIES	03/04/2011	4TH Q 2010	$2,500.00	-$2,500.00	04/08/2011
331621	PRIZER PAINTER STOVE WORKS	03/04/2011	4TH Q 2010	$100.00	-$100.00	04/05/2011
331097	SEALED AIR CORP	03/01/2011	4TH Q 2010	$100.00	-$100.00	04/05/2011
358062	TERMACO USA	03/08/2011	4TH Q 2010	$350.00	-$350.00	05/06/2011
337710	YUASA BATTERY INC	03/01/2011	4TH Q 2010	$50.00	-$50.00	03/29/2011
				$23,480.10	**($21,480.10)**	

April 2011

FINES - 54-07-00-3622						
337763	CRESCENT BRASS MANUFACTURING	04/22/2011		$265.05	-$265.05	04/28/2011
				$265.05	**($265.05)**	

May 2011

FINES - 54-07-00-3622						
337763	CRESCENT BRASS MANUFACTURING	05/19/2011		$265.05	-$265.05	05/26/2011
				$265.05	**($265.05)**	

June 2011

FINES - 54-07-00-3622						
331155	ARAMARK UNIFORM SERVICES	06/20/2011	2011-1ST Q	$100.00	-$100.00	07/12/2011
341901	CLOISTER CAR WASH AND LUBE	06/20/2011	2011-1ST Q	$1,700.00	-$1,700.00	07/18/2011
331117	CLOVER FARMS DAIRY	06/20/2011	2011-1ST Q	$9,200.00	-$9,200.00	08/03/2011
334378	DIETRICH MILK PRODUCTS	06/20/2011	2011-1ST Q	$200.00	-$200.00	08/03/2011
338910	HOFMANN INDUSTRIES	06/20/2011	1ST Q 2011	$200.00	$0.00	############
331089	IFS INDUSTRIES	06/20/2011	2011-1ST Q	$5,000.00	-$5,000.00	08/03/2011
337731	PARAGON OPTICAL	06/16/2011	2011-1ST Q	$100.00	$0.00	############
				$16,500.00	**($16,200.00)**	

July 2011

FINES - 54-07-00-3622						
337763	CRESCENT BRASS MANUFACTURING	07/20/2011		$265.05	-$265.05	07/20/2011
337763	CRESCENT BRASS MANUFACTURING	07/11/2011		$265.05	-$265.05	07/20/2011
				$530.10	**($530.10)**	

September 2011

FINES - 54-07-00-3622						
331155	ARAMARK UNIFORM SERVICES	09/28/2011	2011-2ND Q	$150.00	-$150.00	10/26/2011
331117	CLOVER FARMS DAIRY	09/27/2011	2011-2ND Q	$12,000.00	-$12,000.00	10/26/2011
337763	CRESCENT BRASS MANUFACTURING	09/01/2011		$265.05	-$265.05	09/07/2011
365363	DAIRY FARMERS OF AMERICA	09/27/2011	2ND Q 2011	$12,150.00	-$12,150.00	11/09/2011
331089	IFS INDUSTRIES	09/27/2011	2011-2ND Q	$9,000.00	-$9,000.00	10/21/2011
338345	LENTZ MILLING	09/27/2011	2011-2ND Q	$350.00	-$350.00	10/05/2011

337731	PARAGON OPTICAL	09/27/2011	2ND Q 2011	$100.00	$0.00	############
331154	PENSKE TRUCK LEASING	09/23/2011	2ND Q 2011	$100.00	-$100.00	10/24/2011
331097	~~SEALED AIR CORP~~	09/22/2011	2ND Q 2011	$200.00	-$200.00	10/14/2011
337723	ST JOSEPH MEDICAL CENTER	09/22/2011	2011-2ND Q D	$100.00	-$100.00	10/19/2011
345103	SUN RICH FRESH FOODS INC	09/22/2011	2011-2ND Q	$50.00	-$50.00	10/28/2011
337716	TOM STURGIS PRETZELS INC	09/22/2011	2011-2ND Q	$50.00	-$50.00	10/14/2011
337715	UNIQUE PRETZELS	09/21/2011	2011-2ND Q	$200.00	-$200.00	10/12/2011
337713	UNITED CORRSTACK	09/21/2011	2011-2ND Q	$150.00	-$150.00	10/11/2011
338340	VAN BENNETT	09/21/2011	2ND Q 2011	$100.00	$0.00	############
				$34,965.05	**($34,765.05)**	

October 2011

FINES - 54-07-00-3622

337763	~~CRESCENT BRASS MANUFACTURING~~	10/26/2011		$265.05	-$265.05	11/03/2011
337763	~~CRESCENT BRASS MANUFACTURING~~	10/26/2011		$265.05	-$265.05	11/03/2011
				$530.10	**($530.10)**	

December 2011

FINES - 54-07-00-3622

337763	~~CRESCENT BRASS MANUFACTURING~~	12/16/2011		$530.10	-$530.10	12/22/2011
337723	~~ST JOSEPH MEDICAL CENTER~~	12/29/2011	2011-3RD Q D	$100.00	-$100.00	02/04/2012
358062	TERMACO USA	12/29/2011	2011-3RD Q	$1,000.00	-$900.00	############
337716	~~TOM STURGIS PRETZELS INC~~	12/29/2011	2011-3RD Q	$100.00	-$100.00	02/07/2012
337715	~~UNIQUE PRETZELS~~	12/29/2011	2011-3RD Q	$100.00	-$100.00	03/06/2012
338340	VAN BENNETT	12/29/2011	2011-3RD Q	$100.00	$0.00	############
				$1,930.10	**($1,730.10)**	

January 2012

FINES - 54-07-00-3622

331155	ARAMARK UNIFORM SERVICES	01/04/2012	2011-3RD Q	$200.00	-$200.00	01/20/2012
331620	BERKS PACKING	01/04/2012	2011-3RD Q	$100.00	-$100.00	01/25/2012
341901	CLOISTER CAR WASH AND LUBE	01/04/2012	2011-3RD Q	$1,000.00	-$1,000.00	01/27/2012
337763	CRESCENT BRASS MANUFACTURING	01/04/2012	2011-3RD Q	$100.00	-$100.00	02/04/2012
337763	CRESCENT BRASS MANUFACTURING	01/17/2012		$265.05	-$265.05	01/23/2012
337766	EXIDE CORPORATION	01/04/2012	2011-3RD Q	$400.00	-$400.00	03/05/2012
336996	NATIONAL/YORGEY'S CLEANERS	01/04/2012	2011-3RD Q	$200.00	-$200.00	02/23/2012
364195	OROGRAIN MFG BAKERIES	01/04/2012	2011-3RD Q	$300.00	-$300.00	02/07/2012

337731	PARAGON OPTICAL	01/04/2012	2011-3RD Q	$600.00	$0.00	############
340271	READING TRUCK BODY LLC	01/04/2012	2011-3RD Q	$250.00	-$250.00	02/15/2012
				$3,415.05	**($2,815.05)**	

April 2012

FINES - 54-07-00-3622

341901	CLOISTER CAR WASH AND LUBE	04/05/2012	2011-4TH Q	$500.00	-$500.00	04/24/2012
331117	CLOVER FARMS DAIRY	04/05/2012	2011-4TH Q	$200.00	-$200.00	05/07/2012
337763	CRESCENT BRASS MANUFACTURING	04/13/2012		$265.05	$0.00	############
337763	CRESCENT BRASS MANUFACTURING	04/05/2012		$795.15	-$795.15	04/17/2012
365363	DAIRY FARMERS OF AMERICA	04/05/2012	2011-4TH Q	$4,100.00	-$4,100.00	05/07/2012
336996	NATIONAL/YORGEY'S CLEANERS	04/12/2012	2011-4TH Q	$100.00	$0.00	############
337731	PARAGON OPTICAL	04/12/2012	2011-4TH Q	$100.00	$0.00	############
337723	ST JOSEPH MEDICAL CENTER	04/12/2012	2011-4TH Q	$600.00	-$600.00	05/08/2012
				$6,660.20	**($6,195.15)**	

Grand Total : **$113,005.85** **($108,940.80)**

APPENDIX 8

DATA MONITORING SPREADSHEET

QUATERLY INFLUENT, EFFLUENT AND BIOSOLIDS SAMPLING

ANNUAL PRIORITY POLLUTANT SCANS ON PLANT INFLUENT, EFFLUENT AND BIOSOLIDS

PERFORMED:

8/18-19/11:	Influent
8/23-24/11:	Effluent
7/5/11:	Biosolids

2011 WEEKLY MERCURY TESTING AT PLANT INFLUENT POINTS AND PLANT EFFLUENT

MONTHLY FECAL COLIFORM TESTING FOR BIOSOLIDS

MONTHLY 503 ANALYSIS FOR PLANT BIOSOLIDS

BIOSOLIDS FORM 43 PERFORMED 3/4/11 AND 8/2/11

Additional Testing for bis(2-Ethylhexyl)phthalate or semivolatiles on Plant Influent, Effluent and Biosolids

2011 Influent Testing for TKN, Total Phosphorus, o-phosphate

DEP letter and NPDES amendment for mercury limit

DATA MONITORING SPREADSHEET

QUATERLY INFLUENT, EFFLUENT AND BIOSOLIDS SAMPLING

ANNUAL PRIORITY POLLUTANT SCANS
ON PLANT INFLUENT, EFFLUENT AND BIOSOLIDS

PERFORMED:

8/18-19/11:	Influent
8/23-24/11:	Effluent
7/5/11:	Biosolids

Facility Name:	CITY OF READING WWTP									
Facility ID:	PAP026549	**UNITS:**	MG/L			Quarterly		Quarterly		Quarterly
Location:	**INFLUENT**			Date	Date	Date		Date		Date
	Pollutant	Goals	Frequency	January	February	3/2/2011	April	5/9/2011	June	7/7/2011
01002	[redacted]	0.0594	4			<0.005		<0.001		0.001
01027	[redacted]	0.0198	4			0.0011		<0.005		<0.005
01034	[redacted]	0.1293	4			0.021		0.022		0.018
01042	[redacted]	0.1602	4			0.057		0.062		0.102
00722	[redacted]	0.023	4			<0.005		<0.004		<0.004
00720	[redacted]	0.34	4			0.007		0.007		0.007
01051	[redacted]	0.0581	4			0.019		0.02		0.01
71900	[redacted]	0.0002	4			**0.0004**		0.0001		**0.0005**
01062	[redacted]	0.014	0			**0.044**		**0.05**		**0.06**
01067	[redacted]	0.4668	4			0.014		0.025		0.011
46000	[redacted]	0.3618	0			0.04		0.062		0.088
01147	[redacted]	0.027	1							
01077	[redacted]	0.0989	4			<0.002		<0.005		<0.005
01092	[redacted]	0.3825	4			**0.39**		0.326		0.256
	[redacted]			410	354	350	339	393	388	396
	[redacted]			405	331	354	353	358	344	280
	[redacted]			42.2	37.5	32.3	30.4	31.9	31.6	32.9
	[redacted]					51.68		50	54.8	62
	[redacted]					5.26		8.6	9.7	10.6

Facility Name:	CITY OF READING WWTP							
Facility ID:	PAP026549				Quarterly			
Location:	**INFLUENT**	Date			Date	Date		Entry Count
	Pollutant		September	October	11/21/2011	December	DTfl	114 Total
01002	[redacted]	0.002			<0.001			5
01027	[redacted]	<0.005			<0.005			5
01034	[redacted]	0.014			0.013			5
01042	[redacted]	0.094			0.061			5
00722	[redacted]	0.013			<0.004			5
00720	[redacted]	0.034			0.007			5
01051	[redacted]	0.02			0.01			5
71900	[redacted]	**0.0005**			0.0001			5
01062	[redacted]	**0.04**			**0.04**			5
01067	[redacted]	0.012			0.007			5
46000	[redacted]	0.093			0.089			5
01147	[redacted]	0.005						1
01077	[redacted]	<0.005			<0.005			5
01092	[redacted]	0.261			0.252			5
	[redacted]	378	259	340	301	301		10
	[redacted]	290	252	276	261	312		10
	[redacted]	30.6	20.4	23	24	27.6		10
	[redacted]	53.7	46.5	54	45	60		9
	[redacted]	7.2	6.8	6	7.3	18.3		9

Facility Name:	CITY OF READING WWTP									
Facility ID:	PAP026549	**UNITS:**	MG/L	Quarterly	Quarterly	Quarterly	[redacted]	Quarterly		
Location:	**EFFLUENT**			Date	Date	Date	Date	Date		Entry Count
	Pollutant	Goals	Frequency	3/2/2011	5/9/2011	7/7/2011	[redacted]	11/21/2011	DTfl	66 Total
01002	ARSENIC- TOTAL	0.427	4	<0.005	<0.001	<0.001	<0.001	<0.001		5
01027	CADMIUM- TOTAL	0.018	4	<0.001	<0.005	<0.005	<0.005	<0.005		5
01034	CHROMIUM- TOTAL	0.022	4	0.0046	0.005	0.008	0.005	<0.005		5
01042	COPPER- TOTAL	0.075	4	0.015	0.023	0.024	0.028	0.012		5
00722	CYANIDE- FREE (AMENABLE)	0.023	4	0.01	<0.004	<0.004	<0.004	0.004		5
00720	CYANIDE- TOTAL	Monitor	4	0.008	<0.004	0.013	0.015	0.006		5
01051	LEAD- TOTAL	0.111	4	<0.003	<0.01	<0.01	<0.01	<0.01		5
71900	MERCURY- TOTAL	0.00007	4	<0.00007	**<0.0001**	**<0.0001**	**<0.0001**	**<0.0001**		5
01062	MOLYBDENUM- TOTAL	No Goal	0	0.039	0.04	0.05	0.05	0.01		5
01067	NICKEL- TOTAL	3.43	4	<0.01	0.008	0.007	0.005	<0.005		5
46000	PHENOLS- TOTAL	0.136	0	<0.01	0.027	0.039	0.032	0.026		5
01147	SELENIUM- TOTAL	0.027	0				<0.002			1
01077	SILVER- TOTAL	0.037	4	<0.002	<0.005	<0.005	<0.005	<0.005		5
01092	ZINC- TOTAL	0.406	4	0.059	0.097	0.074	0.069	0.07		5

Facility Name:	CITY OF READING WWTP									
Facility ID:	PAP026549	**UNITS:**	MG/KG	503	503	Quarterly		503	503	503
Location:	**SLUDGE**		DRY WT	Date	Date	Date	Date	Date	Date	Date
	Pollutant	Goals	Frequency			3/4/2011				
01002	ARSENIC- TOTAL	41	4	3.13	2.18		<10.1	4.66	3.1	3.75
01027	CADMIUM- TOTAL	39	4	3.34	2.87		4.3	3.53	4.11	4.04
01034	CHROMIUM- TOTAL	Monitor	4	96.2	87.5	114	118	114.6	144.4	131.6
01042	COPPER- TOTAL	1500	4	535.9	451.6		590	551.6	413.9	556.6
00722	CYANIDE- FREE (AMENABLE)	Monitor	4			<1.4				
00720	CYANIDE- TOTAL	Monitor	4			3.4				
01051	LEAD- TOTAL	300	4	116.7	96		113	113.8	122	159.6
71900	MERCURY- TOTAL	17	4	1.67	2.02		1.7	2.22	2.91	2.16
01062	MOLYBDENUM- TOTAL	75	0	46.5	49		48.1	58.5	67.5	71.6
01067	NICKEL- TOTAL	420	4	42.3	44.3		61.4	57.6	75.2	75.2
46000	PHENOLS- TOTAL	No Goal	0			15.2	13.2			
01147	SELENIUM- TOTAL	100	1	7.59	7.92		<25.3	9.38	7.46	6.37
01077	SILVER- TOTAL	Monitor	4			9.6	8.2			
01092	ZINC- TOTAL	2800	4	1597.1	1393.3		1730	1568.4	1567.8	1651.6

Facility Name:	CITY OF READING WWTP									
Facility ID:	PAP026549	Quarterly	503			503	503	503	503	Quarterly
Location:	**SLUDGE**	Date	Date	Date						
	Pollutant	5/6/2011								11/1/2011
01002	ARSENIC- TOTAL		3.77	2	3	4.43	3.95	4.39	3.82	
01027	CADMIUM- TOTAL		4.04	4	4	4.17	4.48	4.13	3.65	
01034	CHROMIUM- TOTAL	21.4	117.1	124	136	145.8	162.9	148	110.5	106
01042	COPPER- TOTAL		531.8	653	749	582.9	668.6	731.8	592.6	
00722	CYANIDE- FREE (AMENABLE)	<0.400		<1.83						<1.99
00720	CYANIDE- TOTAL	0.6		5						10
01051	LEAD- TOTAL		124	140	190	137.5	219.5	173	140.6	
71900	MERCURY- TOTAL		3.08	4	2	3.59	2.14	3.09	2.46	
01062	MOLYBDENUM- TOTAL		70.7	73	**79**	**83.1**	**86**	**94.3**	55.1	
01067	NICKEL- TOTAL		65.1	64.8	65	86.6	98.8	74.3	65.4	
46000	PHENOLS- TOTAL	4.4		95.9						34
01147	SELENIUM- TOTAL		6.23	6.8	5.9	7.79	8.41	5.76	4.13	
01077	SILVER- TOTAL	2.1		11	11					9.4
01092	ZINC- TOTAL		1627.7	1650	1810	1759.4	2297.8	2057.3	1634.1	

Facility Name:	CITY OF READING WWTP					
Facility ID:	PAP026549	503	503			
Location:	**SLUDGE**		Date	Date		Entry Count
	Pollutant				DTfl	172 Total
01002	ARSENIC- TOTAL	3.66	3.95			15
01027	CADMIUM- TOTAL	4.43	4.77			15
01034	CHROMIUM- TOTAL	129	120.5			18
01042	COPPER- TOTAL	667.4	691.6			15
00722	CYANIDE- FREE (AMENABLE)					4
00720	CYANIDE- TOTAL					4
01051	LEAD- TOTAL	149.1	239.5			15
71900	MERCURY- TOTAL	2.89	3.05			15
01062	MOLYBDENUM- TOTAL	62.8	59.4			15
01067	NICKEL- TOTAL	66.7	60			15
46000	PHENOLS- TOTAL					5
01147	SELENIUM- TOTAL	6	4.69			15
01077	SILVER- TOTAL					6
01092	ZINC- TOTAL	1775.7	1766			15

Facility Name:	CITY OF READING WWTP							
Facility ID:	PAP026549			Quarterly	Quarterly	Priority Pollutants		Quarterly
Location:	**6th**			Date	Date	Date	Date	Date
	Pollutant	Goals	Frequency	3/2/2011	5/27/2011	8/9/2011	8/10/2011	12/12/2011
01002	ARSENIC- TOTAL	0.0594	4	<0.005	<0.001	0.003		<0.001
01027	CADMIUM- TOTAL	0.0198	4	<0.001	<0.005	<0.005		<0.005
01034	CHROMIUM- TOTAL	0.1293	4	0.019	0.008	0.019		0.022
01042	COPPER- TOTAL	0.1602	4	0.049	0.035	0.085		0.058
00722	CYANIDE- FREE (AMENABLE)	0.023	4	<0.005	<0.004		<0.004	<0.004
00720	CYANIDE- TOTAL	0.34	4	<0.005	<0.004		0.008	0.014
01051	LEAD- TOTAL	0.0581	4	0.016	<0.01	0.03		0.01
71900	MERCURY- TOTAL	0.0002	4	0.0008	<0.0001	0.0006		0.0001
01062	MOLYBDENUM- TOTAL	0.014	0	0.075	0.04	0.06		0.05
01067	NICKEL- TOTAL	0.4668	4	0.011	0.007	0.01		0.013
46000	PHENOLS- TOTAL	0.3618	0	0.05	0.081		0.092	0.102
01147	SELENIUM- TOTAL	0.027	1			<0.002		
01077	SILVER- TOTAL	0.0989	4	<0.002	<0.005	<0.005		<0.005
01092	ZINC- TOTAL	0.3825	4	0.25	0.102	0.196		0.231
	Oil and Grease			34.9	16		19	23
	Oil and Grease - TPH			<2	<5			<5
	Total P			4.2	3.4	4.4		5
	Antimony					<0.005		
	Beryllium					<0.005		
	Thallium					<0.001		

Facility Name:	CITY OF READING WWTP							
Facility ID:	PAP026549			Quarterly	Quarterly	Priority Pollutants		Quarterly
Location:	**Grit Chamber**			Date	Date	Date	Date	Date
	Pollutant	Goals	Frequency	3/2/2011	5/27/2011	8/9/2011	8/10/2011	12/12/2011
01002	ARSENIC- TOTAL	0.0594	4	<0.005	<0.001	<0.001		<0.001
01027	CADMIUM- TOTAL	0.0198	4	<0.001	<0.005	<0.005		<0.005
01034	CHROMIUM- TOTAL	0.1293	4	<0.0025	<0.005	<0.005		<0.005
01042	COPPER- TOTAL	0.1602	4	0.055	0.083	0.075		0.064
00722	CYANIDE- FREE (AMENABLE)	0.023	4	<0.005	<0.004		<0.004	<0.004
00720	CYANIDE- TOTAL	0.34	4	<0.005	<0.004		0.004	0.006
01051	LEAD- TOTAL	0.0581	4	<0.003	<0.01	<0.01		<0.01
71900	MERCURY- TOTAL	0.0002	4	0.0002	0.0002	<0.0001		<0.0001
01062	MOLYBDENUM- TOTAL	0.014	0	<0.01	<0.01	0.01		<0.01
01067	NICKEL- TOTAL	0.4668	4	<0.01	0.005	<0.005		<0.005
46000	PHENOLS- TOTAL	0.3618	0	0.02	0.043		0.084	0.1
01147	SELENIUM- TOTAL	0.027	1			<0.002		
01077	SILVER- TOTAL	0.0989	4	<0.002	<0.005	<0.005		<0.005
01092	ZINC- TOTAL	0.3825	4	0.13	0.155	0.162		<0.121
	Oil and Grease			13.9	8		23	16
	Oil and Grease - TPH			<2.2	<5			<5
	Total P			3.9	5.6	4.4		3.8
	Antimony					<0.005		
	Beryllium					<0.005		
	Thallium					<0.001		

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ANALYTICAL RESULTS

1 ST QTR

Workorder: 9892358 Quarterly Sampling

Lab ID: **9892358001** Date Collected: 3/2/2011 08:40 Matrix: Waste Water

Sample ID: **Raw Inf 11-1906** INFLUENT Date Received: 3/2/2011 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
bis(2-Ethylhexyl)phthalate	21.6		ug/L	2.8	EPA 625	3/9/11	MPP	3/10/11 16:08	AJL	D1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	101		%	38-134	EPA 625	3/9/11	MPP	3/10/11 16:08	AJL	D1
2-Fluorobiphenyl (S)	75.6		%	37-113	EPA 625	3/9/11	MPP	3/10/11 16:08	AJL	D1
2-Fluorophenol (S)	34.3		%	17-73	EPA 625	3/9/11	MPP	3/10/11 16:08	AJL	D1
Nitrobenzene-d5 (S)	79.8		%	37-124	EPA 625	3/9/11	MPP	3/10/11 16:08	AJL	D1
Phenol-d5 (S)	29		%	11-53	EPA 625	3/9/11	MPP	3/10/11 16:08	AJL	D1
Terphenyl-d14 (S)	34.1		%	33-125	EPA 625	3/9/11	MPP	3/10/11 16:08	AJL	D1
WET CHEMISTRY										
Phosphorus, Total	9.2		mg/L	0.50	EPA 365.1	3/3/11	MLM	3/4/11 04:39	KRK	C1
METALS										
Arsenic, Total	ND		mg/L	0.0050	EPA 200.7	3/4/11	KMK	3/9/11 12:35	JWK	A1
Cadmium, Total	0.0011		mg/L	0.0010	EPA 200.7	3/4/11	KMK	3/9/11 12:35	JWK	A1
Chromium, Total	0.021		mg/L	0.0025	EPA 200.7	3/4/11	KMK	3/9/11 12:35	JWK	A1
Copper, Total	0.057		mg/L	0.0050	EPA 200.7	3/4/11	KMK	3/9/11 12:35	JWK	A1
Lead, Total	0.019		mg/L	0.0030	EPA 200.7	3/4/11	KMK	3/9/11 12:35	JWK	A1
Mercury, Total (XLow-level)	0.0004		mg/L	0.00007	EPA 245.1	3/17/11	MNP	3/17/11 10:42	MNP	H
Molybdenum, Total	0.044		mg/L	0.010	EPA 200.7	3/4/11	KMK	3/9/11 12:35	JWK	A1
Nickel, Total	0.014		mg/L	0.010	EPA 200.7	3/4/11	KMK	3/9/11 12:35	JWK	A1
Silver, Total	ND		mg/L	0.0020	EPA 200.7	3/4/11	KMK	3/9/11 12:35	JWK	A1
Zinc, Total	0.39		mg/L	0.010	EPA 200.7	3/4/11	KMK	3/9/11 12:35	JWK	A1

Sample Comments:

Report has been modified to add Hg to the reporting compound list per c-o-c. DLB 3/14/11

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9892358 Quarterly Sampling

Lab ID: **9892358002** Date Collected: 3/2/2011 08:42 Matrix: Waste Water

Sample ID: **Raw Inf 11-1908** INFLUENT Date Received: 3/2/2011 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	0.0070		mg/L	0.0050	EPA 335.4	3/3/11	MLM	3/3/11 13:05	MLM	A1
Cyanide,Weak/Dissociable(Free)	ND		mg/L	0.0050	SM20-4500CNI	3/8/11	MLM	3/8/11 14:18	MLM	A2
Oil/Grease Hexane Extractable	59.6		mg/L	2.0	EPA 1664A			3/11/11 06:30	AH	D
Oil/Grease Silica Gel Treated	7.7		mg/L	2.0	EPA 1664A			3/11/11 06:30	AH	D
Phenolics	0.04		mg/L	0.01	EPA 420.4	3/10/11	MLM	3/10/11 14:40	TMG	C

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

1ST QTR

Workorder: 9892358 Quarterly Sampling

Lab ID: **9892358003** Date Collected: 3/2/2011 09:28 Matrix: Waste Water

Sample ID: **Final Eff 11-1918** EFFLUENT Date Received: 3/2/2011 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
bis(2-Ethylhexyl)phthalate	4.5		ug/L	2.8	EPA 625	3/9/11	MPP	3/10/11 15:20	AJL	D1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	93.8		%	38-134	EPA 625	3/9/11	MPP	3/10/11 15:20	AJL	D1
2-Fluorobiphenyl (S)	73.6		%	37-113	EPA 625	3/9/11	MPP	3/10/11 15:20	AJL	D1
2-Fluorophenol (S)	43.8		%	17-73	EPA 625	3/9/11	MPP	3/10/11 15:20	AJL	D1
Nitrobenzene-d5 (S)	75.4		%	37-124	EPA 625	3/9/11	MPP	3/10/11 15:20	AJL	D1
Phenol-d5 (S)	30.5		%	11-53	EPA 625	3/9/11	MPP	3/10/11 15:20	AJL	D1
Terphenyl-d14 (S)	71.3		%	33-125	EPA 625	3/9/11	MPP	3/10/11 15:20	AJL	D1
WET CHEMISTRY										
Phosphorus, Total	2.4		mg/L	0.20	EPA 365.1	3/3/11	MLM	3/4/11 07:41	KRK	C1
METALS										
Arsenic, Total	ND		mg/L	0.0050	EPA 200.7	3/4/11	KMK	3/9/11 12:39	JWK	A1
Cadmium, Total	ND		mg/L	0.0010	EPA 200.7	3/4/11	KMK	3/9/11 12:39	JWK	A1
Chromium, Total	0.0046		mg/L	0.0025	EPA 200.7	3/4/11	KMK	3/9/11 12:39	JWK	A1
Copper, Total	0.015		mg/L	0.0050	EPA 200.7	3/4/11	KMK	3/9/11 12:39	JWK	A1
Lead, Total	ND		mg/L	0.0030	EPA 200.7	3/4/11	KMK	3/9/11 12:39	JWK	A1
Mercury, Total (XLow-level)	ND		mg/L	0.00007	EPA 245.1	3/17/11	MNP	3/17/11 10:44	MNP	H
Molybdenum, Total	0.039		mg/L	0.010	EPA 200.7	3/4/11	KMK	3/9/11 12:39	JWK	A1
Nickel, Total	ND		mg/L	0.010	EPA 200.7	3/4/11	KMK	3/9/11 12:39	JWK	A1
Silver, Total	ND		mg/L	0.0020	EPA 200.7	3/4/11	KMK	3/9/11 12:39	JWK	A1
Zinc, Total	0.059		mg/L	0.010	EPA 200.7	3/4/11	KMK	3/9/11 12:39	JWK	A1

Sample Comments:

Report has been modified to add Hg to the reporting compound list per c-o-c. DLB 3/14/11

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder: 9892358 Quarterly Sampling

Lab ID: **9892358004** Date Collected: 3/2/2011 08:30 Matrix: Waste Water

Sample ID: **Final Eff 11-1925** EFFLUENT Date Received: 3/2/2011 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	0.0080		mg/L	0.0050	EPA 335.4	3/3/11	MLM	3/3/11 13:05	MLM	A1
Cyanide,Weak/Dissociable(Free)	0.010	1	mg/L	0.0050	SM20-4500CNI	3/8/11	MLM	3/8/11 14:18	MLM	A2
Oil/Grease Hexane Extractable	ND		mg/L	2.0	EPA 1664A			3/11/11 06:30	AH	D
Oil/Grease Silica Gel Treated	ND		mg/L	2.0	EPA 1664A			3/11/11 06:30	AH	D
Phenolics	ND		mg/L	0.01	EPA 420.4	3/10/11	MLM	3/10/11 14:41	TMG	C

Sample Comments:

Anna G Milliken
Technical Manager

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

1ST QTR

Workorder: 9892358 Quarterly Sampling

Lab ID: **9892358005** Date Collected: 3/2/2011 09:24 Matrix: Waste Water

Sample ID: **6th 11-1923** Date Received: 3/2/2011 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Phosphorus, Total	4.2		mg/L	0.50	EPA 365.1	3/3/11	MLM	3/4/11 04:39	KRK	C1
METALS										
Arsenic, Total	ND		mg/L	0.0050	EPA 200.7	3/4/11	KMK	3/9/11 12:43	JWK	A1
Cadmium, Total	ND		mg/L	0.0010	EPA 200.7	3/4/11	KMK	3/9/11 12:43	JWK	A1
Chromium, Total	0.019		mg/L	0.0025	EPA 200.7	3/4/11	KMK	3/9/11 12:43	JWK	A1
Copper, Total	0.049		mg/L	0.0050	EPA 200.7	3/4/11	KMK	3/9/11 12:43	JWK	A1
Lead, Total	0.016		mg/L	0.0030	EPA 200.7	3/4/11	KMK	3/9/11 12:43	JWK	A1
Mercury, Total (XLow-level)	0.0008		mg/L	0.0003	EPA 245.1	3/17/11	MNP	3/17/11 11:40	MNP	F
Molybdenum, Total	0.075		mg/L	0.010	EPA 200.7	3/4/11	KMK	3/9/11 12:43	JWK	A1
Nickel, Total	0.011		mg/L	0.010	EPA 200.7	3/4/11	KMK	3/9/11 12:43	JWK	A1
Silver, Total	ND		mg/L	0.0020	EPA 200.7	3/4/11	KMK	3/9/11 12:43	JWK	A1
Zinc, Total	0.25		mg/L	0.010	EPA 200.7	3/4/11	KMK	3/9/11 12:43	JWK	A1

Sample Comments:

Report has been modified to add Hg to the reporting compound list per c-o-c. DLB 3/14/11

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ANALYTICAL RESULTS

Workorder: 9892358 Quarterly Sampling

Lab ID: **9892358006** Date Collected: 3/2/2011 09:22 Matrix: Waste Water

Sample ID: **6th 11-1922** Date Received: 3/2/2011 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	ND		mg/L	0.0050	EPA 335.4	3/3/11	MLM	3/3/11 13:05	MLM	A1
Cyanide,Weak/Dissociable(Free)	ND		mg/L	0.0050	SM20-4500CNI	3/8/11	MLM	3/8/11 14:18	MLM	A2
Oil/Grease Hexane Extractable	34.9		mg/L	2.0	EPA 1664A			3/11/11 06:30	AH	D
Oil/Grease Silica Gel Treated	ND		mg/L	2.0	EPA 1664A			3/11/11 06:30	AH	D
Phenolics	0.05		mg/L	0.01	EPA 420.4	3/10/11	MLM	3/10/11 14:44	TMG	C

Sample Comments:

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Technical Manager

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ANALYTICAL RESULTS

1ST QTR

Workorder: 9892358 Quarterly Sampling

Lab ID: **9892358007** Date Collected: 3/2/2011 08:35 Matrix: Waste Water

Sample ID: **Grit 11-1920** Date Received: 3/2/2011 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Phosphorus, Total	3.9		mg/L	0.50	EPA 365.1	3/7/11	KRK	3/8/11 00:33	KRK	C1
METALS										
Arsenic, Total	ND		mg/L	0.0050	EPA 200.7	3/4/11	KMK	3/9/11 12:47	JWK	A1
Cadmium, Total	ND		mg/L	0.0010	EPA 200.7	3/4/11	KMK	3/9/11 12:47	JWK	A1
Chromium, Total	ND		mg/L	0.0025	EPA 200.7	3/4/11	KMK	3/9/11 12:47	JWK	A1
Copper, Total	0.055		mg/L	0.0050	EPA 200.7	3/4/11	KMK	3/9/11 12:47	JWK	A1
Lead, Total	ND		mg/L	0.0030	EPA 200.7	3/4/11	KMK	3/9/11 12:47	JWK	A1
Mercury, Total (XLow-level)	0.0002		mg/L	0.00007	EPA 245.1	3/17/11	MNP	3/17/11 10:51	MNP	F
Molybdenum, Total	ND		mg/L	0.010	EPA 200.7	3/4/11	KMK	3/9/11 12:47	JWK	A1
Nickel, Total	ND		mg/L	0.010	EPA 200.7	3/4/11	KMK	3/9/11 12:47	JWK	A1
Silver, Total	ND		mg/L	0.0020	EPA 200.7	3/4/11	KMK	3/9/11 12:47	JWK	A1
Zinc, Total	0.13		mg/L	0.010	EPA 200.7	3/4/11	KMK	3/9/11 12:47	JWK	A1

Sample Comments:

Report has been modified to add Hg to the reporting compound list per c-o-c. DLB 3/14/11

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Technical Manager

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ANALYTICAL RESULTS

Workorder: 9892358 Quarterly Sampling

Lab ID: **9892358008** Date Collected: 3/2/2011 08:33 Matrix: Waste Water

Sample ID: ~~6th~~ **11-1919** GRIT Seechain of Custody Date Received: 3/2/2011 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Total	ND		mg/L	0.0050	EPA 335.4	3/3/11	MLM	3/3/11 13:05	MLM	A1
Cyanide,Weak/Dissociable(Free)	ND		mg/L	0.0050	SM20-4500CNI	3/8/11	MLM	3/8/11 14:18	MLM	A2
Oil/Grease Hexane Extractable	13.9		mg/L	2.2	EPA 1664A			3/11/11 06:30	AH	D
Oil/Grease Silica Gel Treated	ND		mg/L	2.2	EPA 1664A			3/11/11 06:30	AH	D
Phenolics	0.02		mg/L	0.01	EPA 420.4	3/10/11	MLM	3/10/11 14:45	TMG	C

Sample Comments:

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Technical Manager

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ANALYTICAL RESULTS

1ST QTR

Workorder: 9892868 11-1973 Quarterly

Lab ID: **9892868001** Date Collected: 3/4/2011 08:24 Matrix: Solid

Sample ID: **Beltpress Sludge, 11-1973** Date Received: 3/4/2011 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	277	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Acenaphthylene	ND		ug/kg	277	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Anthracene	ND		ug/kg	277	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Benzidine	ND		ug/kg	5540	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Benzo(a)anthracene	ND		ug/kg	277	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Benzo(a)pyrene	ND		ug/kg	277	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Benzo(b)fluoranthene	ND		ug/kg	277	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Benzo(g,h,i)perylene	ND		ug/kg	277	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Benzo(k)fluoranthene	ND		ug/kg	277	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
4-Bromophenyl-phenylether	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Butylbenzylphthalate	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
4-Chloro-3-methylphenol	ND		ug/kg	1500	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
bis(2-Chloroethoxy)methane	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
bis(2-Chloroethyl)ether	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
bis(2-Chloroisopropyl)ether	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
2-Chloronaphthalene	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
2-Chlorophenol	ND		ug/kg	1500	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
4-Chlorophenyl-phenylether	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Chrysene	ND		ug/kg	277	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Di-n-Butylphthalate	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Di-n-Octylphthalate	ND		ug/kg	1500	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Dibenzo(a,h)anthracene	ND		ug/kg	333	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
1,2-Dichlorobenzene	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
1,3-Dichlorobenzene	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
1,4-Dichlorobenzene	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
3,3-Dichlorobenzidine	ND		ug/kg	2990	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
2,4-Dichlorophenol	ND		ug/kg	1500	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Diethylphthalate	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
2,4-Dimethylphenol	ND		ug/kg	1500	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Dimethylphthalate	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
2,4-Dinitrophenol	ND		ug/kg	2990	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
2,4-Dinitrotoluene	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
2,6-Dinitrotoluene	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
1,2-Diphenylhydrazine	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
bis(2-Ethylhexyl)phthalate	8960		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Fluoranthene	ND		ug/kg	277	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Fluorene	ND		ug/kg	277	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Hexachlorobenzene	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Hexachlorobutadiene	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Hexachlorocyclopentadiene	ND		ug/kg	1500	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3

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ANALYTICAL RESULTS

Workorder: 9892868 11-1973 Quarterly

Lab ID: **9892868001** Date Collected: 3/4/2011 08:24 Matrix: Solid

Sample ID: **Beltpress Sludge, 11-1973** Date Received: 3/4/2011 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Hexachloroethane	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Indeno(1,2,3-cd)pyrene	ND		ug/kg	277	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Isophorone	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
2-Methyl-4,6-dinitrophenol	ND		ug/kg	1500	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Naphthalene	319		ug/kg	277	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Nitrobenzene	ND		ug/kg	665	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
2-Nitrophenol	ND		ug/kg	1500	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
4-Nitrophenol	ND		ug/kg	1500	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
N-Nitrosodimethylamine	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
N-Nitroso-di-n-propylamine	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
N-Nitrosodiphenylamine	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Pentachlorophenol	ND		ug/kg	2990	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Phenanthrene	405		ug/kg	277	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Phenol	ND		ug/kg	1500	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Pyrene	ND		ug/kg	277	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
1,2,4-Trichlorobenzene	ND		ug/kg	554	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
2,4,6-Trichlorophenol	ND		ug/kg	1500	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	84.2		%	37-123	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
2-Fluorobiphenyl (S)	62.5		%	45-105	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
2-Fluorophenol (S)	53.1		%	35-104	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Nitrobenzene-d5 (S)	66.7		%	41-110	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Phenol-d5 (S)	54.8		%	40-100	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
Terphenyl-d14 (S)	50.1		%	38-113	SW846 8270D	3/9/11	J1H	3/10/11 03:48	CGS	A3
WET CHEMISTRY										
Color, Apparent	Black				In-House			3/9/11 11:20	AH	A
Cyanide, Total	3.4		mg/kg	1.4	SW846 9012B	3/7/11	KLR	3/7/11 12:38	KLR	A
Cyanide,Weak/Dissociable(Free)	ND	1	mg/kg	1.4	SM20-4500CNI	3/8/11	MLM	3/8/11 14:18	MLM	A2
Hexane Extractable Material	65600		mg/kg	1090	SW846 9071B			3/15/11 08:00	NJA	A
Layering	None				In-House			3/9/11 11:20	AH	A
Moisture	82.2		%	0.1	SM20-2540 G			3/8/11 14:50	KAK	A
Number of Phases	1				In-House			3/9/11 11:20	AH	A
Odor	Sludge				In-House			3/9/11 11:20	AH	A
Phenolics	15.2		mg/kg	1.8	SW846 9066	3/15/11	KRK	3/16/11 03:19	KRK	A
Phosphorus, Total	17000		mg/kg	526	EPA 365.1	3/14/11	KRK	3/15/11 02:03	KRK	A4
Physical State	Solid				In-House			3/9/11 11:20	AH	A
Silica Gel Treated HEM	20300		mg/kg	1090	SW846 9071B			3/15/11 08:00	NJA	A
Total Solids	17.8		%	0.1	SM20-2540 G			3/8/11 14:50	KAK	A

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ANALYTICAL RESULTS

Workorder: 9892868 11-1973 Quarterly

Lab ID: **9892868001** Date Collected: 3/4/2011 08:24 Matrix: Solid

Sample ID: **Beltpress Sludge, 11-1973** Date Received: 3/4/2011 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Chromium, Total	114		mg/kg	4.8	SW846 6010C	3/8/11	KMK	3/11/11 01:59	SRT	A1
Silver, Total	9.6		mg/kg	2.4	SW846 6010C	3/8/11	KMK	3/11/11 01:59	SRT	A1

Sample Comments:

One or more of the matrix spike compounds for the EPA 8270 analysis were recovered outside of the quality control limits due to sample matrix interferences. The LCS sample associated to this sample was within control limits.

One or more of the values for relative percent difference did not meet the quality control limits in the GC/MS semivolatile matrix spike duplicate associated with this sample.

Anna G Milliken
Technical Manager

CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.

2nd Qtr

RECEIVED
MAY 31 2011
DEPT. OF PUBLIC WORKS

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 05/25/11
Project Number: 1149774
Lab ID: 124-11-0017352
Date Collected: 05/09/11 08:52
Collected By: Client
Date Received: 05/11/11 15:15

Sample Desc: Raw 11-4096 (Composite) INFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	9.2	mg/l	.5	10	SM4500P-F	05/13	15:44	JCL
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	05/16	17:29	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.7	05/16	10:37	LNA
Chromium, Total	0.022	mg/l	.005	1	EPA 200.7	05/16	10:37	LNA
Copper, Total	0.062	mg/l	.01	1	EPA 200.7	05/16	10:37	LNA
Lead, Total	0.02	mg/l	.01	1	EPA 200.7	05/16	10:37	LNA
Mercury, Total	0.0001	mg/l	.0001	1	EPA 245.1	05/18	11:06	JAW
Molybdenum, Total	0.05	mg/l	.01	1	EPA 200.7	05/16	10:37	LNA
Nickel, Total	0.025	mg/l	.005	1	EPA 200.7	05/16	10:37	LNA
Silver, Total	<.005	mg/l	.005	1	EPA 200.7	05/18	12:20	LNA
Zinc, Total	0.326	mg/l	.005	1	EPA 200.7	05/16	10:37	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<.01	mg/l	.01	1	EPA 625	05/16	16:51	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	05/13	07:00	MEB

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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M.J. Reider Associates, Inc.

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

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Date of Report: 05/25/11
Project Number: 1149774
Lab ID: 124-11-0017353
Date Collected: 05/09/11 08:53
Collected By: Client
Date Received: 05/11/11 15:15

Sample Desc: Raw 11-4097 (Grab) INFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	05/12	14:48	JCL
Cyanide, Total	0.007	mg/l	.004	1	10204001X	05/12	14:48	JCL
Phenols (4AAP)	0.062	mg/l	.005	1	EPA 420.4	05/16	11:55	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	22	mg/l	5	1	EPA 1664	05/18	11:00	JLS
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	05/23	13:00	JLS

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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
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815 Washington St.
Reading PA 19601

Date of Report: 05/23/11
Project Number: 1149774
Lab ID: 124-11-0017354
Date Collected: 05/09/11 09:42
Collected By: Client
Date Received: 05/11/11 15:15

Sample Desc: Final 11-4109 (Composite) EFFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	3.23	mg/l	.1	2	SM4500P-F	05/13	15:44	JCL
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	05/16	17:29	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.7	05/16	10:37	LNA
Chromium, Total	0.005	mg/l	.005	1	EPA 200.7	05/16	10:37	LNA
Copper, Total	0.023	mg/l	.01	1	EPA 200.7	05/16	10:37	LNA
Lead, Total	<.01	mg/l	.01	1	EPA 200.7	05/16	10:37	LNA
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	05/18	11:06	JAW
Molybdenum, Total	0.04	mg/l	.01	1	EPA 200.7	05/16	10:37	LNA
Nickel, Total	0.008	mg/l	.005	1	EPA 200.7	05/16	10:37	LNA
Silver, Total	<.005	mg/l	.005	1	EPA 200.7	05/18	12:20	LNA
Zinc, Total	0.097	mg/l	.005	1	EPA 200.7	05/16	10:37	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<.01	mg/l	.01	1	EPA 625	05/16	16:51	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	05/13	07:00	MEB

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Technical Director

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Reported To: City of Reading WWTP
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Date of Report: 05/23/11
Project Number: 1149774
Lab ID: 124-11-0017355
Date Collected: 05/09/11 08:02
Collected By: Client
Date Received: 05/11/11 15:15

Sample Desc: Final 11-4086 (Grab) EFFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	05/12	14:48	JCL
Cyanide, Total	<.004	mg/l	.004	1	10204001X	05/12	14:48	JCL
Phenols (4AAP)	0.027	mg/l	.005	1	EPA 420.4	05/16	11:55	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	<5	mg/l	5	1	EPA 1664	05/18	11:00	JLS
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	05/18	11:00	JLS

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Date of Report: 06/21/11
Project Number: 1151873
Lab ID: 124-11-0020292
Date Collected: 05/28/11 09:04
Collected By: CLIENT
Date Received: 06/01/11 15:10

Sample Desc: 6th Street 11-4715 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	3.4	mg/l	.5	10	SM 4500P-E	06/07	10:30	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	06/02	19:02	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.8	06/03	12:04	RLS
Chromium, Total	0.008	mg/l	.005	1	EPA 200.8	06/03	12:04	RLS
Copper, Total	0.035	mg/l	.01	1	EPA 200.8	06/03	12:04	RLS
Lead, Total	<.01	mg/l	.01	1	EPA 200.8	06/03	12:04	RLS
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	06/08	11:12	JAW
Molybdenum, Total	0.04	mg/l	.01	1	EPA 200.8	06/03	12:04	RLS
Nickel, Total	0.007	mg/l	.005	1	EPA 200.8	06/03	12:04	RLS
Silver, Total	<.005	mg/l	.005	1	EPA 200.8	06/03	12:04	RLS
Zinc, Total	0.102	mg/l	.005	1	EPA 200.8	06/03	12:04	RLS

COMMENTS

01 Preservative on label of bottle for PO4-P says HNO3. Preservative for PO4-P should be H2SO4. The pH was <2. Used this bottle for analysis.

Distribution of Reports:

Reviewed and Approved by:

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Technical Director

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Date of Report: 06/21/11
Project Number: 1151873
Lab ID: 124-11-0020293
Date Collected: 05/29/11 09:08
Collected By: Client
Date Received: 06/01/11 15:10

Sample Desc: 6th Street 11-4716 (Grab)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	06/03	16:52	JCL
Cyanide, Total	<.004	mg/l	.004	1	10204001X	06/03	16:52	JCL
Phenols (4AAP)	0.081	mg/l	.01	1	EPA 420.4	06/07	16:14	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	16	mg/l	5	1	EPA 1664	06/08	10:00	JLS
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	06/17	08:30	JLS

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Technical Director

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Date of Report: 06/21/11
Project Number: 1151873
Lab ID: 124-11-0020295
Date Collected: 05/27/11 08:39
Collected By: Client
Date Received: 06/01/11 15:10

Sample Desc: GC 11-4691 (Grab) Grit

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	06/03	16:52	JCL
Cyanide, Total	<.004	mg/l	.004	1	10204001X	06/03	16:52	JCL
Phenols (4AAP)	0.043	mg/l	.01	1	EPA 420.4	06/07	16:14	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	8	mg/l	5	1	EPA 1664	06/08	12:00	JLS
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	06/17	08:30	JLS

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Technical Director

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Date of Report: 06/21/11
Project Number: 1151873
Lab ID: 124-11-0020296
Date Collected: 05/27/11 08:35
Collected By: CLIENT
Date Received: 06/01/11 15:10

Sample Desc: GC 11-4690 (Composite) Grit

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	5.6	mg/l	.5	10	SM 4500P-E	06/07	10:30	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	06/02	19:02	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.8	06/03	12:04	RLS
Chromium, Total	<.005	mg/l	.005	1	EPA 200.8	06/03	12:04	RLS
Copper, Total	0.083	mg/l	.01	1	EPA 200.8	06/03	12:04	RLS
Lead, Total	<.01	mg/l	.01	1	EPA 200.8	06/03	12:04	RLS
Mercury, Total	0.0002	mg/l	.0002	1	EPA 245.1	06/08	11:12	JAW
Molybdenum, Total	<.01	mg/l	.01	1	EPA 200.8	06/03	12:04	RLS
Nickel, Total	0.005	mg/l	.005	1	EPA 200.8	06/03	12:04	RLS
Silver, Total	<.005	mg/l	.005	1	EPA 200.8	06/03	12:04	RLS
Zinc, Total	0.155	mg/l	.005	1	EPA 200.8	06/03	12:04	RLS

COMMENTS

01 Preservative on label of bottle for PO4-P says HNO3. Preservative for PO4-P should be H2SO4. The pH was <2. Used this bottle for analysis.

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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Attention: Amy Morriss
Reported to: City of Reading WWTP Industries
815 Washington St.
Reading PA 19601

Date of Report: 05/26/11
Project Number: 1149566
Lab ID: 2884-11-0016844
Account Rep: Richard Wolfe
Date Received: 05/06/11
Date Collected: 05/04/11
Time Collected: 08:30
Collected By: Client

Sample Description: Belt Press Sludge, 11-3930 (Composite)

* Results expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
CHEMISTRY							
COLORMETRIC							
Cyanide, Free	<0.400	* mg/kg	0.400	DEP 1	05/11	13:22	jcl
Cyanide, Total	0.6	* mg/kg	0.4	10204001X	05/11	13:22	jcl
Phenols (4AAP)	4.4	* mg/kg	1.0	EPA 420.4	05/12	11:13	jcl
Phosphorus as P, Total	3220	* mg/kg	125	SM 4500P-E	05/11	06:50	ald
PHYSICAL							
Visual Color	Gray-black	color	1	VISUAL	05/25	12:16	whc
RESIDUES							
Solids, Total	18.2	%	1	SM 2540G	05/08	11:40	eps
INORGANIC							
TOTAL							
Chromium, Total	21.4	* mg/kg	0.500	SW846 6010	05/10	10:28	lna
Silver, Total	2.1	* mg/kg	0.50	SW846 6010	05/11	12:46	lna
O&G/TPH							
GENERAL							
N-Hexane Extractable Material (O&G)	12800	* mg/kg	250	EPA 1664	05/11	08:15	jls
Silica Gel Treated N-Hexane Extract(TPH)	2460	* mg/kg	250	EPA 1664	05/23	13:00	jls
ORGANIC							
ACID COMPOUNDS							
2,4,6-Trichlorophenol	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
2,4-Dichlorophenol	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
2,4-Dimethylphenol	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
2,4-Dinitrophenol	<50.0	* mg/kg	50.0	SW846 8270	05/17	06:39	meb
2-Chlorophenol	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
2-Nitrophenol	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb

Distribution of Report:
Amy Morriss - City of Reading WWTP Industries

M. J. Reider Associates, Inc.
Reviewed and Approved By:

Richard Wolfe
Technical Director

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Attention: Amy Morriss
Reported to: City of Reading WWTP Industries
815 Washington St.
Reading PA 19601

Date of Report: 05/26/11
Project Number: 1149566
Lab ID: 2884-11-0016844
Account Rep: Richard Wolfe
Date Received: 05/06/11
Date Collected: 05/04/11
Time Collected: 08:30
Collected By: Client

Sample Description: Belt Press Sludge, 11-3930 (Composite)

* Results expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
4,6-Dinitro-o-cresol	<50.0	* mg/kg	50.0	SW846 8270	05/17	06:39	meb
4-Chloro-3-methylphenol	<20.0	* mg/kg	20.0	SW846 8270	05/17	06:39	meb
4-Nitrophenol	<50.0	* mg/kg	50.0	SW846 8270	05/17	06:39	meb
Pentachlorophenol	<50.0	* mg/kg	50.0	SW846 8270	05/17	06:39	meb
Phenol	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
BASE NEUTRALS							
1,2,4-Trichlorobenzene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
1,2-Dichlorobenzene (o-Dichlorobenzene)	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
1,2-Diphenylhydrazine (as Azobenzene)	<10.0	* mg/kg	0.500	SW846 8270	05/17	06:39	meb
1,3-Dichlorobenzene	<10.0	* mg/kg	0.500	SW846 8270	05/17	06:39	meb
1,4-Dichlorobenzene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
2,4-Dinitrotoluene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
2,6-Dinitrotoluene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
2-Chloronaphthalene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
3,3'-Dichlorobenzidine	<20.0	* mg/kg	20.0	SW846 8270	05/17	06:39	meb
3,4-Benzofluoranthene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
4-Bromophenyl phenyl ether	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
4-Chlorophenyl phenyl ether	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Acenaphthene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Acenaphthylene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Anthracene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Benzidine	<20.0	* mg/kg	20.0	SW846 8270	05/17	06:39	meb
Benzo(a)anthracene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Benzo(a)pyrene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Benzo(ghi)perylene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Benzo(k)fluoranthene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb

Distribution of Report:
Amy Morriss - City of Reading WWTP Industries

M. J. Reider Associates, Inc.
Reviewed and Approved By:

Richard Wolfe
Technical Director

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Attention: Amy Morriss
Reported to: City of Reading WWTP Industries
815 Washington St.
Reading PA 19601

Date of Report: 05/26/11
Project Number: 1149566
Lab ID: 2884-11-0016844
Account Rep: Richard Wolfe
Date Received: 05/06/11
Date Collected: 05/04/11
Time Collected: 08:30
Collected By: Client

Sample Description: Belt Press Sludge, 11-3930 (Composite)

* Results expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
Bis(2-chloroethoxy)methane	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Bis(2-Chloroethyl) ether	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Bis(2-Chloroisopropyl) ether	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Bis(2-Ethylhexyl) phthalate	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Butyl benzyl phthalate	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Chrysene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Di-n-butyl phthalate	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Di-n-octyl phthalate	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Dibenz(a,h)anthracene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Diethyl phthalate	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Dimethyl phthalate	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Fluoranthrene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Fluorene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Hexachlorobenzene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Hexachlorobutadiene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Hexachlorocyclopentadiene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Hexachloroethane	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Indeno(1,2,3-cd)pyrene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Isophorone	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
N-Nitrosodi-n-propylamine	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
N-Nitrosodimethylamine	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
N-Nitrosodiphenylamine	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Naphthalene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Nitrobenzene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Phenanthrene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb
Pyrene	<10.0	* mg/kg	10.0	SW846 8270	05/17	06:39	meb

Distribution of Report:
Amy Morriss - City of Reading WWTP Industries

M. J. Reider Associates, Inc.
Reviewed and Approved By:

Richard Wolfe
Technical Director

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M.J. Reider Associates, Inc.

3RD QTR
RAW (INFLUENT)

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

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Date of Report: 07/18/11
Project Number: 1155272
Lab ID: 124-11-0026140
Date Collected: 07/07/11 08:49
Collected By: Client
Date Received: 07/08/11 15:30

Sample Desc: RC 11-5988 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	9.0	mg/l	.5	10	SM 4500P-E	07/12	10:10	ALD
INORGANIC								
TOTAL								
Arsenic, Total	0.001	mg/l	.001	1	EPA 200.9	07/13	02:00	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.8	07/13	12:29	RLS
Chromium, Total	0.018	mg/l	.005	1	EPA 200.8	07/13	12:29	RLS
Copper, Total	0.102	mg/l	.01	1	EPA 200.8	07/13	12:29	RLS
Lead, Total	0.01	mg/l	.01	1	EPA 200.8	07/13	12:29	RLS
Mercury, Total	0.0005	mg/l	.0001	1	EPA 245.1	07/14	14:14	JAW
Molybdenum, Total	0.06	mg/l	.01	1	EPA 200.8	07/13	12:29	RLS
Nickel, Total	0.011	mg/l	.005	1	EPA 200.8	07/13	12:29	RLS
Silver, Total	<.005	mg/l	.005	1	EPA 200.7	07/13	12:11	LNA
Zinc, Total	0.256	mg/l	.005	1	EPA 200.8	07/13	12:29	RLS
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	07/12	12:40	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	07/11	08:30	MEB

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Reviewed and Approved by:

Richard Wolfe
Technical Director

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Date of Report: 07/18/11
Project Number: 1155272
Lab ID: 124-11-0026142
Date Collected: 07/08/11 08:47
Collected By: Client
Date Received: 07/08/11 15:30

Sample Desc: RC 11-5987 (Grab)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	07/13	14:44	JCL
Cyanide, Total	0.007	mg/l	.004	1	10204001X	07/13	14:44	JCL
Phenols (4AAP)	0.088	mg/l	.01	1	EPA 420.4	07/13	11:43	JCL
O&G/TPH								
GENERAL								
Oil and Grease	13	mg/l	5	1	EPA 1664	07/11	13:00	JLS
Silica Gel Treated N-Hexane Extract(TPH)	8	mg/l	5	1	EPA 1664	07/13	13:00	JLS

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3rd QTR

FINAL (effluent)

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Date of Report: 07/18/11
Project Number: 1155272
Lab ID: 124-11-0026139
Date Collected: 07/07/11 09:26
Collected By: Client
Date Received: 07/08/11 15:30

Sample Desc: FC 11-6000 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	4.2	mg/l	.5	10	SM 4500P-E	07/12	10:10	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	07/13	02:00	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.8	07/13	12:29	RLS
Chromium, Total	0.008	mg/l	.005	1	EPA 200.8	07/13	12:29	RLS
Copper, Total	0.024	mg/l	.01	1	EPA 200.8	07/13	12:29	RLS
Lead, Total	<.01	mg/l	.01	1	EPA 200.8	07/13	12:29	RLS
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	07/14	14:14	JAW
Molybdenum, Total	0.05	mg/l	.01	1	EPA 200.8	07/13	12:29	RLS
Nickel, Total	0.007	mg/l	.005	1	EPA 200.8	07/13	12:29	RLS
Silver, Total	<.005	mg/l	.005	1	EPA 200.7	07/13	12:11	LNA
Zinc, Total	0.074	mg/l	.005	1	EPA 200.8	07/13	12:29	RLS
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	07/12	12:40	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	07/11	08:30	MEB

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Technical Director

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Date of Report: 07/18/11
Project Number: 1155272
Lab ID: 124-11-0026141
Date Collected: 07/08/11 08:12
Collected By: Client
Date Received: 07/08/11 15:30

Sample Desc: FG 11-5967 (Grab)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	07/13	14:44	JCL
Cyanide, Total	0.013	mg/l	.004	1	10204001X	07/13	14:44	JCL
Phenols (4AAP)	0.039	mg/l	.01	1	EPA 420.4	07/13	11:43	JCL
O&G/TPH								
GENERAL								
Oil and Grease	<5	mg/l	5	1	EPA 1664	07/11	13:00	JLS
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	07/11	13:00	JLS

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3rd Qtr – PP - Raw (Inf)

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
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815 Washington St.
Reading PA 19601

Date of Report: 08/30/11
Project Number: 1159063
Lab ID: 124-11-0032799
Date Collected: 08/19/11 09:00
Collected By: CLIENT
Date Received: 08/19/11 15:30

Sample Desc: 11-7356 RG (Priority Pollutants, 4 Grabs Composited @ lab; collected @ 0900, 1000, 1315 & 1505) INFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
1,1,2,2-Tetrachloroethane	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
1,1,2-Trichloroethane	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
1,1-Dichloroethylene	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
1,2-Dichloroethane	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
1,2-Dichloropropane	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
1,3-Dichlorobenzene	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
1,4-Dichlorobenzene	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
2-Chloroethylvinyl Ether	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
Acrolein	<50	ug/l	50	1	EPA 624	08/19	11:04	GXF
Acrylonitrile	<50	ug/l	50	1	EPA 624	08/19	11:04	GXF
Benzene	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
Bromomethane (Methyl Bromide)	<10	ug/l	10	1	EPA 624	08/19	11:04	GXF
Carbon Tetrachloride	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
Chloroethane	<10	ug/l	10	1	EPA 624	08/19	11:04	GXF
Chloroform	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	08/19	11:04	GXF
cis-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
cis-1,3-Dichloropropylene	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
Dichlorobromomethane	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
Ethylbenzene	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
Library Search, Volatiles	see comment	ug/l	15	1	EPA 624	08/19	11:04	GXF
Methylene Chloride	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF

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Technical Director

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CERTIFICATE OF ANALYSIS
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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
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815 Washington St.
Reading PA 19601

Date of Report: 08/30/11
Project Number: 1159063
Lab ID: 124-11-0032799
Date Collected: 08/19/11 09:00
Collected By: CLIENT
Date Received: 08/19/11 15:30

Sample Desc: 11-7356 RG (Priority Pollutants, 4 Grabs Composited @ lab; collected @ 0900, 1000, 1315 & 1505) INFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Tetrachloroethylene	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
Toluene	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
trans-1,3-Dichloropropylene	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
Trichloroethylene	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
Trichlorofluoromethane	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF
Vinyl Chloride	<10	ug/l	10	1	EPA 624	08/19	11:04	GXF
Xylenes (Total)	<5	ug/l	5	1	EPA 624	08/19	11:04	GXF

COMMENTS

01 The VOC library search tentatively identified 1-Propanol, 2-Propanol, Acetone, Carbon disulfide, and Limonene.

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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
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Reading PA 19601

Date of Report: 08/30/11
Project Number: 1159063
Lab ID: 124-11-0032798
Date Collected: 08/19/11 09:00
Collected By: CLIENT
Date Received: 08/19/11 15:30

Sample Desc: 11-7356 RG (Priority Pollutants, Grab) INFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	0.013	mg/l	.004	1	DEP 1	08/23	10:46	JCL
Cyanide, Total	0.034	mg/l	.004	1	10204001X	08/22	16:02	JCL
Phenols (4AAP)	0.093	mg/l	.01	1	EPA 420.4	08/23	14:12	JCL
O&G/TPH								
GENERAL								
Oil and Grease	12	mg/l	5	1	EPA 1664	08/22	11:00	JLS

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3rd QTR PRIORITY POLLUTANTS

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
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Reading PA 19601

Date of Report: 12/14/11 RAIN
Project Number: 1159063
Lab ID: 124-11-0032797 (INFL
Date Collected: 08/18/11 09:04
Collected By: CLIENT
Date Received: 08/19/11 15:30

Sample Desc: 11-7353 RC (Priority Pollutants, Composite) INFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	7.8	mg/l	.5	10	SM 4500P-E	08/23	06:50	ALD
INORGANIC								
TOTAL								
Antimony, Total	<.005	mg/l	.005	1	EPA 200.8	08/23	14:04	LNA
Arsenic, Total	0.002	mg/l	.001	1	EPA 200.8	08/23	14:04	LNA
Beryllium, Total	<.005	mg/l	.005	1	EPA 200.7	08/25	10:39	LNA
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.8	08/23	14:04	LNA
Chromium, Total	0.014	mg/l	.005	1	EPA 200.7	08/25	10:39	LNA
Copper, Total	0.094	mg/l	.01	1	EPA 200.8	08/23	14:04	LNA
Lead, Total	0.02	mg/l	.01	1	EPA 200.8	08/23	14:04	LNA
Mercury, Total	.0005	mg/l	.0001	1	EPA 245.1	08/24	11:01	JAW
Molybdenum, Total	0.04	mg/l	.01	1	EPA 200.7	08/25	10:39	LNA
Nickel, Total	0.012	mg/l	.005	1	EPA 200.8	08/23	14:04	LNA
Selenium, Total	0.005	mg/l	.002	1	EPA 200.8	08/23	14:04	LNA
Silver, Total	<.005	mg/l	.005	1	EPA 200.7	08/22	14:26	LNA
Thallium, Total	<.001	mg/l	.001	1	EPA 200.8	08/23	14:04	LNA
Zinc, Total	0.261	mg/l	.005	1	EPA 200.8	08/23	14:04	LNA
ORGANIC								
ACID COMPOUNDS								
2,4,6-Trichlorophenol	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
2,4-Dichlorophenol	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
2,4-Dimethylphenol	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
2,4-Dinitrophenol	<50	ug/l	50	1	EPA 625	08/24	10:03	MEB
2-Chlorophenol	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
2-Nitrophenol	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
4,6-Dinitro-o-cresol	<50	ug/l	50	1	EPA 625	08/24	10:03	MEB
4-Chloro-3-methylphenol	<20	ug/l	20	1	EPA 625	08/24	10:03	MEB
4-Nitrophenol	<50	ug/l	50	1	EPA 625	08/24	10:03	MEB

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Date of Report: 12/14/11
Project Number: 1159063
Lab ID: 124-11-0032797
Date Collected: 08/18/11 09:04
Collected By: CLIENT
Date Received: 08/19/11 15:30

Sample Desc: 11-7353 RC (Priority Pollutants, Composite) INFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Pentachlorophenol	<50	ug/l	50	1	EPA 625	08/24	10:03	MEB
Phenol	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
BASE NEUTRALS								
1,2,4-Trichlorobenzene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
1,2-Diphenylhydrazine (as Azobenzene)	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
2,3,7,8-Tetrachlorodibenzodioxin	see comment	ug/l	40	1	EPA 625	08/24	10:03	MEB
2,4-Dinitrotoluene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
2,6-Dinitrotoluene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
2-Chloronaphthalene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
3,3'-Dichlorobenzidine	<20	ug/l	20	1	EPA 625	08/24	10:03	MEB
3,4-Benzofluoranthene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
4-Bromophenyl phenyl ether	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
4-Chlorophenyl phenyl ether	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Acenaphthene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Acenaphthylene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Anthracene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Benzidine	<20	ug/l	20	1	EPA 625	08/24	10:03	MEB
Benzo(a)anthracene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Benzo(a)pyrene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Benzo(ghi)perylene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Benzo(k)fluoranthene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Bis(2-chloroethoxy)methane	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Bis(2-Chloroethyl) ether	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Bis(2-Chloroisopropyl) ether	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Butyl benzyl phthalate	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Chrysene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Di-n-butyl phthalate	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Di-n-octyl phthalate	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Dibenz(a,h)anthracene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB

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Technical Director

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Date of Report: 12/14/11
Project Number: 1159063
Lab ID: 124-11-0032797
Date Collected: 08/18/11 09:04
Collected By: CLIENT
Date Received: 08/19/11 15:30

Sample Desc: 11-7353 RC (Priority Pollutants, Composite) INFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Diethyl phthalate	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Dimethyl phthalate	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Fluoranthrene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Fluorene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Hexachlorobenzene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Hexachlorobutadiene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Hexachlorocyclopentadiene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Hexachloroethane	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Indeno(1,2,3-cd)pyrene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Isophorone	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Library Search, Semivolatiles	see comment	ug/l	40	1	EPA 625	08/24	10:03	MEB
N-Nitrosodi-n-propylamine	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
N-Nitrosodimethylamine	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
N-Nitrosodiphenylamine	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Naphthalene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Nitrobenzene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Phenanthrene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
Pyrene	<10	ug/l	10	1	EPA 625	08/24	10:03	MEB
EXTRACTION								
EPA 608 Extraction	Complete		0	0	EPA 608	08/24	06:30	KLE
EPA 625 Extraction	Complete		0	0	EPA 625	08/23	08:00	JLV
PCBS								
PCB-1016	<5	ug/l	5	1	EPA 608	08/26	01:33	TWH
PCB-1221	<5	ug/l	5	1	EPA 608	08/26	01:33	TWH
PCB-1232	<5	ug/l	5	1	EPA 608	08/26	01:33	TWH
PCB-1242	<5	ug/l	5	1	EPA 608	08/26	01:33	TWH
PCB-1248	<5	ug/l	5	1	EPA 608	08/26	01:33	TWH
PCB-1254	<5	ug/l	5	1	EPA 608	08/26	01:33	TWH
PCB-1260	<5	ug/l	5	1	EPA 608	08/26	01:33	TWH
PESTICIDES								

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Technical Director

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Date of Report: 12/14/11
Project Number: 1159063
Lab ID: 124-11-0032797
Date Collected: 08/18/11 09:04
Collected By: CLIENT
Date Received: 08/19/11 15:30

Sample Desc: 11-7353 RC (Priority Pollutants, Composite) INFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
4,4'-DDD	<.5	ug/l	.5	1	EPA 608	08/26	01:33	TWH
4,4'-DDE	<.5	ug/l	.5	1	EPA 608	08/26	01:33	TWH
4,4'-DDT	<.5	ug/l	.5	1	EPA 608	08/26	01:33	TWH
Aldrin	<.5	ug/l	.5	1	EPA 608	08/26	01:33	TWH
alpha-BHC	<.5	ug/l	.5	1	EPA 608	08/26	01:33	TWH
beta-BHC	<.5	ug/l	.5	1	EPA 608	08/26	01:33	TWH
Chlordane	<1	ug/l	1	1	EPA 608	08/26	01:33	TWH
delta-BHC	<.5	ug/l	.5	1	EPA 608	08/26	01:33	TWH
Dieldrin	<.5	ug/l	.5	1	EPA 608	08/26	01:33	TWH
Endosulfan I	<.5	ug/l	.5	1	EPA 608	08/26	01:33	TWH
Endosulfan II	<.5	ug/l	.5	1	EPA 608	08/26	01:33	TWH
Endosulfan sulfate	<.5	ug/l	.5	1	EPA 608	08/26	01:33	TWH
Endrin	<.5	ug/l	.5	1	EPA 608	08/26	01:33	TWH
Endrin aldehyde	<.5	ug/l	.5	1	EPA 608	08/26	01:33	TWH
Heptachlor	<.5	ug/l	.5	1	EPA 608	08/26	01:33	TWH
Heptachlor Epoxide	<.5	ug/l	.5	1	EPA 608	08/26	01:33	TWH
Lindane (Gamma BHC)	<.5	ug/l	.5	1	EPA 608	08/26	01:33	TWH
Toxaphene	<10	ug/l	10	1	EPA 608	08/26	01:33	TWH

COMMENTS

01 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.

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3rd Qtr + PP's - Final (EFF

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
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815 Washington St.
Reading PA 19601

Date of Report: 09/02/11
Project Number: 1159298
Lab ID: 124-11-0033465
Date Collected: 08/24/11 08:08
Collected By: Client
Date Received: 08/24/11 15:40

Sample Desc: Final 11-7502 (Grab, Priority Pollutants) EFFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	08/25	12:03	JCL
Cyanide, Total	0.015	mg/l	.004	1	10204001X	08/25	12:03	JCL
Phenols (4AAP)	0.032	mg/l	.01	1	EPA 420.4	08/25	15:52	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	<5	mg/l	5	1	EPA 1664	08/25	13:00	JLS
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	08/25	13:00	JLS

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Reading PA 19601

Date of Report: 09/02/11
Project Number: 1159298
Lab ID: 124-11-0033466
Date Collected: 08/23/11 09:40
Collected By: Client
Date Received: 08/24/11 15:40

Sample Desc: Final 11-7539 (Composite, Priority Pollutants) effluent

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	5.0	mg/l	.5	10	SM 4500P-E	08/25	07:50	ALD
INORGANIC								
TOTAL								
Antimony, Total	<.005	mg/l	.005	1	EPA 200.8	08/26	13:54	RLS
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	08/25	11:25	RLS
Beryllium, Total	<.005	mg/l	.005	1	EPA 200.7	08/25	10:39	LNA
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.7	08/25	10:39	LNA
Chromium, Total	0.005	mg/l	.005	1	EPA 200.7	08/25	10:39	LNA
Copper, Total	0.028	mg/l	.01	1	EPA 200.7	08/25	10:39	LNA
Lead, Total	<.01	mg/l	.01	1	EPA 200.7	08/25	10:39	LNA
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	08/30	13:47	JAW
Molybdenum, Total	0.05	mg/l	.01	1	EPA 200.7	08/25	10:39	LNA
Nickel, Total	0.005	mg/l	.005	1	EPA 200.7	08/25	10:39	LNA
Selenium, Total	<.002	mg/l	.002	1	EPA 200.9	08/25	20:28	RLS
Silver, Total	<.005	mg/l	.005	1	EPA 200.8	08/26	13:54	RLS
Thallium, Total	<.001	mg/l	.001	1	EPA 200.8	08/26	13:54	RLS
Zinc, Total	0.069	mg/l	.005	1	EPA 200.7	08/25	10:39	LNA
ORGANIC								
ACID COMPOUNDS								
2,4,6-Trichlorophenol	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
2,4-Dichlorophenol	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
2,4-Dimethylphenol	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
2,4-Dinitrophenol	<50	ug/l	50	1	EPA 625	08/29	14:01	MEB
2-Chlorophenol	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB

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Reading PA 19601

Date of Report: 09/02/11
Project Number: 1159298
Lab ID: 124-11-0033466
Date Collected: 08/23/11 09:40
Collected By: Client
Date Received: 08/24/11 15:40

Sample Desc: Final 11-7539 (Composite, Priority Pollutants) EFFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
2-Nitrophenol	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
4,6-Dinitro-o-cresol	<50	ug/l	50	1	EPA 625	08/29	14:01	MEB
4-Chloro-3-methylphenol	<20	ug/l	20	1	EPA 625	08/29	14:01	MEB
4-Nitrophenol	<50	ug/l	50	1	EPA 625	08/29	14:01	MEB
Pentachlorophenol	<50	ug/l	50	1	EPA 625	08/29	14:01	MEB
Phenol	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
BASE NEUTRALS								
1,2,4-Trichlorobenzene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
1,2-Diphenylhydrazine (as Azobenzene)	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
2,3,7,8-Tetrachlorodibenzodioxin	see comment	ug/l	40	1	EPA 625	08/29	14:01	MEB
2,4-Dinitrotoluene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
2,6-Dinitrotoluene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
2-Chloronaphthalene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
3,3'-Dichlorobenzidine	<20	ug/l	20	1	EPA 625	08/29	14:01	MEB
3,4-Benzofluoranthene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
4-Bromophenyl phenyl ether	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
4-Chlorophenyl phenyl ether	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Acenaphthene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Acenaphthylene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Anthracene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Benzidine	<20	ug/l	20	1	EPA 625	08/29	14:01	MEB
Benzo(a)anthracene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Benzo(a)pyrene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Benzo(ghi)perylene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Benzo(k)fluoranthene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Bis(2-chloroethoxy)methane	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB

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Date of Report: 09/02/11
Project Number: 1159298
Lab ID: 124-11-0033466
Date Collected: 08/23/11 09:40
Collected By: Client
Date Received: 08/24/11 15:40

Sample Desc: Final 11-7539 (Composite, Priority Pollutants) EFFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Bis(2-Chloroethyl) ether	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Bis(2-Chloroisopropyl) ether	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Butyl benzyl phthalate	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Chrysene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Di-n-butyl phthalate	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Di-n-octyl phthalate	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Dibenz(a,h)anthracene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Diethyl phthalate	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Dimethyl phthalate	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Fluoranthrene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Fluorene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Hexachlorobenzene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Hexachlorobutadiene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Hexachlorocyclopentadiene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Hexachloroethane	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Indeno(1,2,3-cd)pyrene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Isophorone	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Library Search, Semivolatiles	see comment	ug/l	40	1	EPA 625	08/29	14:01	MEB
N-Nitrosodi-n-propylamine	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
N-Nitrosodimethylamine	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
N-Nitrosodiphenylamine	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Naphthalene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Nitrobenzene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Phenanthrene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB
Pyrene	<10	ug/l	10	1	EPA 625	08/29	14:01	MEB

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Date of Report: 09/02/11
Project Number: 1159298
Lab ID: 124-11-0033466
Date Collected: 08/23/11 09:40
Collected By: Client
Date Received: 08/24/11 15:40

Sample Desc: Final 11-7539 (Composite, Priority Pollutants) EFFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
EXTRACTION								
EPA 608 Extraction	Complete		0	0	EPA 608	08/29	14:00	KLE
EPA 625 Extraction	Complete		0	0	EPA 625	08/25	08:00	JLV
PCBS								
PCB-1016	<5	ug/l	5	1	EPA 608	08/31	02:22	TWH
PCB-1221	<5	ug/l	5	1	EPA 608	08/31	02:22	TWH
PCB-1232	<5	ug/l	5	1	EPA 608	08/31	02:22	TWH
PCB-1242	<5	ug/l	5	1	EPA 608	08/31	02:22	TWH
PCB-1248	<5	ug/l	5	1	EPA 608	08/31	02:22	TWH
PCB-1254	<5	ug/l	5	1	EPA 608	08/31	02:22	TWH
PCB-1260	<5	ug/l	5	1	EPA 608	08/31	02:22	TWH
PESTICIDES								
4,4'-DDD	<.5	ug/l	.5	1	EPA 608	08/31	02:22	TWH
4,4'-DDE	<.5	ug/l	.5	1	EPA 608	08/31	02:22	TWH
4,4'-DDT	<.5	ug/l	.5	1	EPA 608	08/31	02:22	TWH
Aldrin	<.5	ug/l	.5	1	EPA 608	08/31	02:22	TWH
alpha-BHC	<.5	ug/l	.5	1	EPA 608	08/31	02:22	TWH
beta-BHC	<.5	ug/l	.5	1	EPA 608	08/31	02:22	TWH
Chlordane	<1	ug/l	1	1	EPA 608	08/31	02:22	TWH
delta-BHC	<.5	ug/l	.5	1	EPA 608	08/31	02:22	TWH
Dieldrin	<.5	ug/l	.5	1	EPA 608	08/31	02:22	TWH
Endosulfan I	<.5	ug/l	.5	1	EPA 608	08/31	02:22	TWH
Endosulfan II	<.5	ug/l	.5	1	EPA 608	08/31	02:22	TWH
Endosulfan sulfate	<.5	ug/l	.5	1	EPA 608	08/31	02:22	TWH
Endrin	<.5	ug/l	.5	1	EPA 608	08/31	02:22	TWH
Endrin aldehyde	<.5	ug/l	.5	1	EPA 608	08/31	02:22	TWH

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Date of Report: 09/02/11
Project Number: 1159298
Lab ID: 124-11-0033467
Date Collected: 08/24/11 08:09
Collected By: Client
Date Received: 08/24/11 15:40

Sample Desc: Final (4 Grabs/Lab Composite, Priority Pollutants VOCs; collected @ 8:09, 9:55, 13:44 & 15:10) EFFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
1,1,2,2-Tetrachloroethane	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
1,1,2-Trichloroethane	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
1,1-Dichloroethylene	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
1,2-Dichloroethane	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
1,2-Dichloropropane	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
1,3-Dichlorobenzene	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
1,4-Dichlorobenzene	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
2-Chloroethylvinyl Ether	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
Acrolein	<50	ug/l	50	1	EPA 624	08/25	10:51	GXF
Acrylonitrile	<50	ug/l	50	1	EPA 624	08/25	10:51	GXF
Benzene	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
Bromomethane (Methyl Bromide)	<10	ug/l	10	1	EPA 624	08/25	10:51	GXF
Carbon Tetrachloride	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
Chloroethane	<10	ug/l	10	1	EPA 624	08/25	10:51	GXF
Chloroform	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	08/25	10:51	GXF
cis-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
cis-1,3-Dichloropropylene	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF

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Date of Report: 09/02/11
Project Number: 1159298
Lab ID: 124-11-0033467
Date Collected: 08/24/11 08:09
Collected By: Client
Date Received: 08/24/11 15:40

Sample Desc: Final (4 Grabs/Lab Composite, Priority Pollutants VOCs; collected @ 8:09, 9:55, 13:44 & 15:10) EFFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Dichlorobromomethane	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
Ethylbenzene	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
Library Search, Volatiles	see comment	ug/l	15	1	EPA 624	08/25	10:51	GXF
Methylene Chloride	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
Tetrachloroethylene	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
Toluene	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
trans-1,3-Dichloropropylene	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
Trichloroethylene	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
Trichlorofluoromethane	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF
Vinyl Chloride	<10	ug/l	10	1	EPA 624	08/25	10:51	GXF
Xylenes (Total)	<5	ug/l	5	1	EPA 624	08/25	10:51	GXF

COMMENTS

01 The volatile organic compound library search did not detect any compounds above the concentration of the internal standards.

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Technical Director

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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.

3rd Qtr + PP - 6th

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/22/11
Project Number: 1158355
Lab ID: 124-11-0031118
Date Collected: 08/09/11 08:18
Collected By: CLIENT
Date Received: 08/10/11 15:25

Sample Desc: 6th 11-7079 (Composite, PPL & Quarterly Testing)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	4.4	mg/l	.5	10	SM 4500P-E	08/12	09:00	ALD
INORGANIC								
TOTAL								
Antimony, Total	<.005	mg/l	.005	1	EPA 200.8	08/12	13:06	RLS
Arsenic, Total	0.003	mg/l	.001	1	EPA 200.8	08/12	13:06	RLS
Beryllium, Total	<.005	mg/l	.005	1	EPA 200.8	08/12	13:06	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.8	08/12	13:06	RLS
Chromium, Total	0.019	mg/l	.005	1	EPA 200.8	08/12	13:06	RLS
Copper, Total	0.085	mg/l	.01	1	EPA 200.8	08/12	13:06	RLS
Lead, Total	0.03	mg/l	.01	1	EPA 200.8	08/12	13:06	RLS
Mercury, Total	0.0006	mg/l	.0001	1	EPA 245.1	08/16	10:45	JAW
Molybdenum, Total	0.06	mg/l	.01	1	EPA 200.8	08/12	13:06	RLS
Nickel, Total	0.010	mg/l	.005	1	EPA 200.8	08/12	13:06	RLS
Selenium, Total	<.002	mg/l	.002	1	EPA 200.9	08/16	08:25	RLS
Silver, Total	<.005	mg/l	.005	1	EPA 200.8	08/12	13:06	RLS
Thallium, Total	<.001	mg/l	.001	1	EPA 200.8	08/12	13:06	RLS
Zinc, Total	0.196	mg/l	.005	1	EPA 200.8	08/12	13:06	RLS
ORGANIC								
ACID COMPOUNDS								
2,4,6-Trichlorophenol	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
2,4-Dichlorophenol	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
2,4-Dimethylphenol	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
2,4-Dinitrophenol	<50	ug/l	50	1	EPA 625	08/16	07:00	MEB
2-Chlorophenol	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
2-Nitrophenol	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
4,6-Dinitro-o-cresol	<50	ug/l	50	1	EPA 625	08/16	07:00	MEB
4-Chloro-3-methylphenol	<20	ug/l	20	1	EPA 625	08/16	07:00	MEB
4-Nitrophenol	<50	ug/l	50	1	EPA 625	08/16	07:00	MEB

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Technical Director

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815 Washington St.
Reading PA 19601

Date of Report: 08/22/11
Project Number: 1158355
Lab ID: 124-11-0031118
Date Collected: 08/09/11 08:18
Collected By: CLIENT
Date Received: 08/10/11 15:25

Sample Desc: 6th 11-7079 (Composite, PPL & Quarterly Testing)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Pentachlorophenol	<50	ug/l	50	1	EPA 625	08/16	07:00	MEB
Phenol	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
BASE NEUTRALS								
1,2,4-Trichlorobenzene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
1,2-Diphenylhydrazine (as Azobenzene)	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
2,3,7,8-Tetrachlorodibenzodioxin	see comment	ug/l	40	1	EPA 625	08/16	07:00	MEB
2,4-Dinitrotoluene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
2,6-Dinitrotoluene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
2-Chloronaphthalene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
3,3'-Dichlorobenzidine	<20	ug/l	20	1	EPA 625	08/16	07:00	MEB
3,4-Benzofluoranthene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
4-Bromophenyl phenyl ether	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
4-Chlorophenyl phenyl ether	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Acenaphthene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Acenaphthylene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Anthracene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Benzidine	<20	ug/l	20	1	EPA 625	08/16	07:00	MEB
Benzo(a)anthracene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Benzo(a)pyrene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Benzo(ghi)perylene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Benzo(k)fluoranthene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Bis(2-chloroethoxy)methane	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Bis(2-Chloroethyl) ether	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Bis(2-Chloroisopropyl) ether	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Butyl benzyl phthalate	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Chrysene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Di-n-butyl phthalate	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Di-n-octyl phthalate	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Dibenz(a,h)anthracene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB

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Technical Director

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815 Washington St.
Reading PA 19601

Date of Report: 08/22/11
Project Number: 1158355
Lab ID: 124-11-0031118
Date Collected: 08/09/11 08:18
Collected By: CLIENT
Date Received: 08/10/11 15:25

Sample Desc: 6th 11-7079 (Composite, PPL & Quarterly Testing)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Diethyl phthalate	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Dimethyl phthalate	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Fluoranthrene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Fluorene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Hexachlorobenzene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Hexachlorobutadiene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Hexachlorocyclopentadiene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Hexachloroethane	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Indeno(1,2,3-cd)pyrene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Isophorone	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Library Search, Semivolatiles	see comment	ug/l	40	1	EPA 625	08/16	07:00	MEB
N-Nitrosodi-n-propylamine	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
N-Nitrosodimethylamine	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
N-Nitrosodiphenylamine	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Naphthalene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Nitrobenzene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Phenanthrene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Pyrene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
EXTRACTION								
EPA 608 Extraction	Complete		0	0	EPA 608	08/11	09:00	KLE
EPA 625 Extraction	Complete		0	0	EPA 625	08/15	07:00	JLV
PCBS								
PCB-1016	<5	ug/l	5	1	EPA 608	08/13	02:55	TWH
PCB-1221	<5	ug/l	5	1	EPA 608	08/13	02:55	TWH
PCB-1232	<5	ug/l	5	1	EPA 608	08/13	02:55	TWH
PCB-1242	<5	ug/l	5	1	EPA 608	08/13	02:55	TWH
PCB-1248	<5	ug/l	5	1	EPA 608	08/13	02:55	TWH
PCB-1254	<5	ug/l	5	1	EPA 608	08/13	02:55	TWH
PCB-1260	<5	ug/l	5	1	EPA 608	08/13	02:55	TWH
PESTICIDES								

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Reading PA 19601

Date of Report: 08/22/11
Project Number: 1158355
Lab ID: 124-11-0031118
Date Collected: 08/09/11 08:18
Collected By: CLIENT
Date Received: 08/10/11 15:25

Sample Desc: 6th 11-7079 (Composite, PPL & Quarterly Testing)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
4,4'-DDD	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
4,4'-DDE	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
4,4'-DDT	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Aldrin	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
alpha-BHC	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
beta-BHC	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Chlordane	<1	ug/l	1	1	EPA 608	08/13	02:55	TWH
delta-BHC	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Dieldrin	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Endosulfan I	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Endosulfan II	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Endosulfan sulfate	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Endrin	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Endrin aldehyde	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Heptachlor	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Heptachlor Epoxide	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Lindane (Gamma BHC)	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Toxaphene	<10	ug/l	10	1	EPA 608	08/13	02:55	TWH

COMMENTS

01 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.

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Technical Director

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815 Washington St.
Reading PA 19601

Date of Report: 08/22/11
Project Number: 1158355
Lab ID: 124-11-0031119
Date Collected: 08/10/11 08:15
Collected By: CLIENT
Date Received: 08/10/11 15:25

Sample Desc: 6th 11-7078 (Grab, PPL & Quarterly Testing)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	08/12	15:27	JCL
Cyanide, Total	0.008	mg/l	.004	1	10204001X	08/12	15:27	JCL
Phenols (4AAP)	0.092	mg/l	.01	1	EPA 420.4	08/11	11:38	JCL
O&G/TPH								
GENERAL								
Oil and Grease	19	mg/l	5	1	EPA 1664	08/11	13:00	JLS

COMMENTS

01 The Phenols matrix spike was low indicating possible sample matrix interference.

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Technical Director

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Reading PA 19601

Date of Report: 08/22/11
Project Number: 1158354
Lab ID: 124-11-0031120
Date Collected: 08/10/11 08:15
Collected By: CLIENT
Date Received: 08/10/11 15:25

Sample Desc: 6th (Lab Composite of 4 Grabs, PPL VOAs)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,1,2,2-Tetrachloroethane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,1,2-Trichloroethane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,1-Dichloroethylene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,2-Dichloroethane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,2-Dichloropropane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,3-Dichlorobenzene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,4-Dichlorobenzene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
2-Chloroethylvinyl Ether	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Acrolein	<50	ug/l	50	1	EPA 624	08/11	08:31	GXF
Acrylonitrile	<50	ug/l	50	1	EPA 624	08/11	08:31	GXF
Benzene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Bromomethane (Methyl Bromide)	<10	ug/l	10	1	EPA 624	08/11	08:31	GXF
Carbon Tetrachloride	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Chloroethane	<10	ug/l	10	1	EPA 624	08/11	08:31	GXF
Chloroform	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	08/11	08:31	GXF
cis-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
cis-1,3-Dichloropropylene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Dichlorobromomethane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Ethylbenzene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Library Search, Volatiles	see comment	ug/l	15	1	EPA 624	08/11	08:31	GXF
Methylene Chloride	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF

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Technical Director

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Reading PA 19601

Date of Report: 08/22/11
Project Number: 1158354
Lab ID: 124-11-0031120
Date Collected: 08/10/11 08:15
Collected By: CLIENT
Date Received: 08/10/11 15:25

Sample Desc: 6th (Lab Composite of 4 Grabs, PPL VOAs)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Tetrachloroethylene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Toluene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
trans-1,3-Dichloropropylene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Trichloroethylene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Trichlorofluoromethane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Vinyl Chloride	<10	ug/l	10	1	EPA 624	08/11	08:31	GXF
Xylenes (Total)	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF

COMMENTS

01 The Grab portions of this sample were collected at 08:15, 10:26, 13:21 & 15:01 on 08/10/11)

02 The VOC library search tentatively identified 1-Propanol, 2-Propanol, Acetone, Carbon disulfide & Ethanol.

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Technical Director

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3rd Qtr + PP's Grit

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
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815 Washington St.
Reading PA 19601

Date of Report: 08/22/11
Project Number: 1158355
Lab ID: 124-11-0031115
Date Collected: 08/09/11 10:48
Collected By: CLIENT
Date Received: 08/10/11 15:25

Sample Desc: GC 11-7084 (Composite, PPL & Quarterly Testing) Grit

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	4.4	mg/l	.5	10	SM 4500P-E	08/12	09:00	ALD
INORGANIC								
TOTAL								
Antimony, Total	<.005	mg/l	.005	1	EPA 200.8	08/12	13:06	RLS
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.8	08/12	13:06	RLS
Beryllium, Total	<.005	mg/l	.005	1	EPA 200.8	08/12	13:06	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.8	08/12	13:06	RLS
Chromium, Total	<.005	mg/l	.005	1	EPA 200.8	08/12	13:06	RLS
Copper, Total	0.075	mg/l	.01	1	EPA 200.8	08/12	13:06	RLS
Lead, Total	<.01	mg/l	.01	1	EPA 200.8	08/12	13:06	RLS
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	08/16	10:45	JAW
Molybdenum, Total	0.01	mg/l	.01	1	EPA 200.8	08/12	13:06	RLS
Nickel, Total	<.005	mg/l	.005	1	EPA 200.8	08/12	13:06	RLS
Selenium, Total	<.002	mg/l	.002	1	EPA 200.8	08/12	13:06	RLS
Silver, Total	<.005	mg/l	.005	1	EPA 200.8	08/12	13:06	RLS
Thallium, Total	<.001	mg/l	.001	1	EPA 200.8	08/12	13:06	RLS
Zinc, Total	0.162	mg/l	.005	1	EPA 200.8	08/12	13:06	RLS
ORGANIC								
ACID COMPOUNDS								
2,4,6-Trichlorophenol	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
2,4-Dichlorophenol	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
2,4-Dimethylphenol	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
2,4-Dinitrophenol	<50	ug/l	50	1	EPA 625	08/16	07:00	MEB
2-Chlorophenol	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
2-Nitrophenol	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
4,6-Dinitro-o-cresol	<50	ug/l	50	1	EPA 625	08/16	07:00	MEB
4-Chloro-3-methylphenol	<20	ug/l	20	1	EPA 625	08/16	07:00	MEB
4-Nitrophenol	<50	ug/l	50	1	EPA 625	08/16	07:00	MEB

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M.J. Reider Associates, Inc.

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/22/11
Project Number: 1158355
Lab ID: 124-11-0031115
Date Collected: 08/09/11 10:48
Collected By: CLIENT
Date Received: 08/10/11 15:25

Sample Desc: GC 11-7084 (Composite, PPL & Quarterly Testing) Grit

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Pentachlorophenol	<50	ug/l	50	1	EPA 625	08/16	07:00	MEB
Phenol	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
BASE NEUTRALS								
1,2,4-Trichlorobenzene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
1,2-Diphenylhydrazine (as Azobenzene)	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
2,3,7,8-Tetrachlorodibenzodioxin	see comment	ug/l	40	1	EPA 625	08/16	07:00	MEB
2,4-Dinitrotoluene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
2,6-Dinitrotoluene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
2-Chloronaphthalene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
3,3'-Dichlorobenzidine	<20	ug/l	20	1	EPA 625	08/16	07:00	MEB
3,4-Benzofluoranthene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
4-Bromophenyl phenyl ether	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
4-Chlorophenyl phenyl ether	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Acenaphthene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Acenaphthylene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Anthracene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Benzidine	<20	ug/l	20	1	EPA 625	08/16	07:00	MEB
Benzo(a)anthracene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Benzo(a)pyrene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Benzo(ghi)perylene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Benzo(k)fluoranthene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Bis(2-chloroethoxy)methane	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Bis(2-Chloroethyl) ether	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Bis(2-Chloroisopropyl) ether	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Butyl benzyl phthalate	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Chrysene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Di-n-butyl phthalate	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Di-n-octyl phthalate	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Dibenz(a,h)anthracene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB

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c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/22/11
Project Number: 1158355
Lab ID: 124-11-0031115
Date Collected: 08/09/11 10:48
Collected By: CLIENT
Date Received: 08/10/11 15:25

Sample Desc: GC 11-7084 (Composite, PPL & Quarterly Testing) GRIT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Diethyl phthalate	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Dimethyl phthalate	34	ug/l	10	2	EPA 625	08/16	07:00	MEB
Fluoranthrene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Fluorene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Hexachlorobenzene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Hexachlorobutadiene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Hexachlorocyclopentadiene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Hexachloroethane	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Indeno(1,2,3-cd)pyrene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Isophorone	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Library Search, Semivolatiles	see comment	ug/l	40	1	EPA 625	08/16	07:00	MEB
N-Nitrosodi-n-propylamine	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
N-Nitrosodimethylamine	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
N-Nitrosodiphenylamine	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Naphthalene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Nitrobenzene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Phenanthrene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
Pyrene	<10	ug/l	10	1	EPA 625	08/16	07:00	MEB
EXTRACTION								
EPA 608 Extraction	Complete		0	0	EPA 608	08/11	09:00	KLE
EPA 625 Extraction	Complete		0	0	EPA 625	08/15	07:00	JLV
PCBS								
PCB-1016	<5	ug/l	5	1	EPA 608	08/13	02:55	TWH
PCB-1221	<5	ug/l	5	1	EPA 608	08/13	02:55	TWH
PCB-1232	<5	ug/l	5	1	EPA 608	08/13	02:55	TWH
PCB-1242	<5	ug/l	5	1	EPA 608	08/13	02:55	TWH
PCB-1248	<5	ug/l	5	1	EPA 608	08/13	02:55	TWH
PCB-1254	<5	ug/l	5	1	EPA 608	08/13	02:55	TWH
PCB-1260	<5	ug/l	5	1	EPA 608	08/13	02:55	TWH
PESTICIDES								

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Date Collected: 08/09/11 10:48
Collected By: CLIENT
Date Received: 08/10/11 15:25

Sample Desc: GC 11-7084 (Composite, PPL & Quarterly Testing) GRIT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
4,4'-DDD	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
4,4'-DDE	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
4,4'-DDT	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Aldrin	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
alpha-BHC	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
beta-BHC	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Chlordane	<1	ug/l	1	1	EPA 608	08/13	02:55	TWH
delta-BHC	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Dieldrin	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Endosulfan I	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Endosulfan II	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Endosulfan sulfate	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Endrin	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Endrin aldehyde	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Heptachlor	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Heptachlor Epoxide	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Lindane (Gamma BHC)	<.5	ug/l	.5	1	EPA 608	08/13	02:55	TWH
Toxaphene	<10	ug/l	10	1	EPA 608	08/13	02:55	TWH

COMMENTS

01 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.

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Date of Report: 08/22/11
Project Number: 1158355
Lab ID: 124-11-0031116
Date Collected: 08/10/11 10:41
Collected By: CLIENT
Date Received: 08/10/11 15:25

Sample Desc: GC 11-7083 (Grab, PPL & Quarterly Testing) GRIT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	08/12	15:27	JCL
Cyanide, Total	0.004	mg/l	.004	1	10204001X	08/12	15:27	JCL
Phenols (4AAP)	0.084	mg/l	.01	1	EPA 420.4	08/11	11:38	JCL
O&G/TPH								
GENERAL								
Oil and Grease	23	mg/l	5	1	EPA 1664	08/11	13:00	JLS

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Date of Report: 08/22/11
Project Number: 1158354
Lab ID: 124-11-0031117
Date Collected: 08/10/11 08:35
Collected By: CLIENT
Date Received: 08/10/11 15:25

Sample Desc: GC (Lab Composite of 4 Grabs, PPL VOAs) GRIT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,1,2,2-Tetrachloroethane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,1,2-Trichloroethane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,1-Dichloroethane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,1-Dichloroethylene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,2-Dichloroethane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,2-Dichloropropane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,3-Dichlorobenzene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
1,4-Dichlorobenzene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
2-Chloroethylvinyl Ether	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Acrolein	<50	ug/l	50	1	EPA 624	08/11	08:31	GXF
Acrylonitrile	<50	ug/l	50	1	EPA 624	08/11	08:31	GXF
Benzene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Bromoform (Tribromomethane)	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Bromomethane (Methyl Bromide)	<10	ug/l	10	1	EPA 624	08/11	08:31	GXF
Carbon Tetrachloride	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Chlorodibromomethane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Chloroethane	<10	ug/l	10	1	EPA 624	08/11	08:31	GXF
Chloroform	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Chloromethane (Methyl Chloride)	<10	ug/l	10	1	EPA 624	08/11	08:31	GXF
cis-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
cis-1,3-Dichloropropylene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Dichlorobromomethane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Ethylbenzene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Library Search, Volatiles	see comment	ug/l	15	1	EPA 624	08/11	08:31	GXF
Methylene Chloride	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF

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Reading PA 19601

Date of Report: 08/22/11
Project Number: 1158354
Lab ID: 124-11-0031117
Date Collected: 08/10/11 08:35
Collected By: CLIENT
Date Received: 08/10/11 15:25

Sample Desc: GC (Lab Composite of 4 Grabs, PPL VOAs) GRIT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Tetrachloroethylene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Toluene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
trans-1,3-Dichloropropylene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Trichloroethylene	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Trichlorofluoromethane	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF
Vinyl Chloride	<10	ug/l	10	1	EPA 624	08/11	08:31	GXF
Xylenes (Total)	<5	ug/l	5	1	EPA 624	08/11	08:31	GXF

COMMENTS

01 The Grab portions of this sample were collected at 08:35, 10:41, 13:41 & 15:18 on 08/10/11)

02 The VOC library search tentatively identified 1-Propanol, 2-Propanol, Acetone & Isobutyl alcohol.

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3rd Qtr + PP's - Biosolids

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Date of Report: 07/26/11
Project Number: 1155051
Lab ID: 0124-11-0025714
Account Rep: Richard Wolfe
Date Received: 07/06/11
Date Collected: 07/05/11
Time Collected: 08:35
Collected By: Client

Sample Description: Belt Press Sludge, 11-5911

* Results expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
CHEMISTRY							
COLORMETRIC							
Cyanide, Free	<1.83	* mg/kg	1.83	DEP 1	07/08	13:36	jcl
Cyanide, Total	5.0	* mg/kg	1.8	10204001X	07/08	13:36	jcl
Phenols (4AAP)	95.9	* mg/kg	9.13	EPA 420.4	07/12	12:14	jcl
Phosphorus as P, Total	20000	* mg/kg	571	SM 4500P-E	07/11	07:09	ald
NITROGENS							
Nitrogen, Ammonia	10000	* mg/kg	460	EPA 350.1	07/12	16:38	jcl
HER							
Biochemical Oxygen Demand	70800	* mg/kg	913	SM 5210B	07/07	16:00	EMW
PHYSICAL							
Visual Color	See Comment	color	2	VISUAL	07/25	13:50	whc
RESIDUES							
Total Solids	21.9	%	1	SM 2540G	07/09	10:30	eps
INORGANIC							
TOTAL							
Antimony, Total	<22.8	* mg/kg	22.8	SW846 6010	07/12	11:42	lna
Arsenic, Total	2	* mg/kg	0.4	EPA 200.9	07/13	02:00	rls
Beryllium, Total	<2.28	* mg/kg	2.28	SW846 6010	07/12	11:42	lna
Cadmium, Total	4	* mg/kg	2	SW846 6010	07/12	11:42	lna
Chromium, Total	124	* mg/kg	2.28	SW846 6010	07/12	11:42	lna
Copper, Total	653	* mg/kg	4.57	SW846 6010	07/12	11:42	lna
Lead, Total	140	* mg/kg	4.6	SW846 6010	07/12	11:42	lna
Mercury, Total	4	* mg/kg	0.9	SW846 7471	07/14	14:14	jaw
Molybdenum, Total	73	* mg/kg	4.6	SW846 6010	07/12	11:42	lna
Nickel, Total	64.8	* mg/kg	2.28	SW846 6010	07/12	11:42	lna

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Richard Wolfe
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Date of Report: 07/26/11
Project Number: 1155051
Lab ID: 0124-11-0025714
Account Rep: Richard Wolfe
Date Received: 07/06/11
Date Collected: 07/05/11
Time Collected: 08:35
Collected By: Client

Sample Description: Belt Press Sludge, 11-5911

* Results expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
Selenium, Total	6.8	* mg/kg	0.91	EPA 200.9	07/12	10:15	rls
Silver, Total	11	* mg/kg	2.3	SW846 6010	07/07	11:54	lna
Titanium, Total	73	* mg/kg	4.6	SW846 6010	07/12	11:42	lna
Zinc, Total	1650	* mg/kg	2.28	SW846 6010	07/12	11:42	lna
O&G/TPH							
GENERAL							
N-Hexane Extractable Material (O&G)	45300	* mg/kg	1140	EPA 1664	07/12	08:30	jls
Silica Gel Treated N-Hexane Extract(TPH)	18500	* mg/kg	1140	EPA 1664	07/13	13:00	jls
(IIC							
ACID COMPOUNDS							
2,4,6-Trichlorophenol	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
2,4-Dichlorophenol	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
2,4-Dimethylphenol	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
2,4-Dinitrophenol	<114	* mg/kg	114	SW846 8270	07/15	11:20	meb
2-Chlorophenol	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
2-Nitrophenol	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
4,6-Dinitro-o-cresol	<114	* mg/kg	114	SW846 8270	07/15	11:20	meb
4-Chloro-3-methylphenol	<45.7	* mg/kg	45.7	SW846 8270	07/15	11:20	meb
4-Nitrophenol	<114	* mg/kg	114	SW846 8270	07/15	11:20	meb
Pentachlorophenol	<114	* mg/kg	114	SW846 8270	07/15	11:20	meb
Phenol	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
BASE NEUTRALS							
1,2,4-Trichlorobenzene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
1,2-Dichlorobenzene (o-Dichlorobenzene)	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
1,2-Diphenylhydrazine (as Azobenzene)	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
1,3-Dichlorobenzene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:

Richard Wolfe
Technical Director

ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
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Reported to: City of Reading WWTP
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Reading PA 19601

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Date of Report: 07/26/11
Project Number: 1155051
Lab ID: 0124-11-0025714
Account Rep: Richard Wolfe
Date Received: 07/06/11
Date Collected: 07/05/11
Time Collected: 08:35
Collected By: Client

Sample Description: Belt Press Sludge, 11-5911

* Results expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
1,4-Dichlorobenzene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
2,4-Dinitrotoluene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
2,6-Dinitrotoluene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
2-Chloronaphthalene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
3,3'-Dichlorobenzidine	<45.7	* mg/kg	45.7	SW846 8270	07/15	11:20	meb
3,4-Benzofluoranthene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
4-Bromophenyl phenyl ether	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
4-Chlorophenyl phenyl ether	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Acenaphthene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Acenaphthylene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Anthracene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Benzidine	<45.7	* mg/kg	45.7	SW846 8270	07/15	11:20	meb
Benzo(a)anthracene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Benzo(a)pyrene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Benzo(ghi)perylene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Benzo(k)fluoranthene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Bis(2-chloroethoxy)methane	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Bis(2-Chloroethyl) ether	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Bis(2-Chloroisopropyl) ether	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Bis(2-Ethylhexyl) phthalate	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Butyl benzyl phthalate	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Chrysene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Di-n-butyl phthalate	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Di-n-octyl phthalate	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Dibenz(a,h)anthracene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Diethyl phthalate	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb

Distribution of Report:
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M. J. Reider Associates, Inc.
Reviewed and Approved By:

Richard Wolfe
Technical Director

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Reported to: City of Reading WWTP
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Date of Report: 07/26/11
Project Number: 1155051
Lab ID: 0124-11-0025714
Account Rep: Richard Wolfe
Date Received: 07/06/11
Date Collected: 07/05/11
Time Collected: 08:35
Collected By: Client

Sample Description: Belt Press Sludge, 11-5911

* Results expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
Dimethyl phthalate	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Fluoranthrene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Fluorene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Hexachlorobenzene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Hexachlorobutadiene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Hexachlorocyclopentadiene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Hexachloroethane	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Indeno(1,2,3-cd)pyrene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Isophorone	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
N-Nitrosodi-n-propylamine	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
N-Nitrosodimethylamine	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
N-Nitrosodiphenylamine	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Naphthalene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Nitrobenzene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Phenanthrene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
Pyrene	<22.8	* mg/kg	22.8	SW846 8270	07/15	11:20	meb
EXTRACTION							
SW846 8081 Extraction	Complete		0	SW846 8081	07/13	10:00	kle
SW846 8270 Extraction	Complete		0	SW846 8270	07/12	12:30	meb
PCBS							
PCB-1016	<0.913	* mg/kg	0.913	SW846 8082	07/16	09:26	twh
PCB-1221	<0.913	* mg/kg	0.913	SW846 8082	07/16	09:26	twh
PCB-1232	<0.913	* mg/kg	0.913	SW846 8082	07/16	09:26	twh
PCB-1242	<0.913	* mg/kg	0.913	SW846 8082	07/16	09:26	twh
PCB-1248	<0.913	* mg/kg	0.913	SW846 8082	07/16	09:26	twh
PCB-1254	<0.913	* mg/kg	0.913	SW846 8082	07/16	09:26	twh

Distribution of Report:
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Richard Wolfe
Technical Director

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Date of Report: 07/26/11
Project Number: 1155051
Lab ID: 0124-11-0025714
Account Rep: Richard Wolfe
Date Received: 07/06/11
Date Collected: 07/05/11
Time Collected: 08:35
Collected By: Client

Sample Description: Belt Press Sludge, 11-5911

* Results expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
PCB-1260	<0.913	* mg/kg	0.913	SW846 8082	07/16	09:26	twh
PESTICIDES							
4,4'-DDD	<0.913	* mg/kg	0.913	SW846 8081	07/16	09:26	twh
4,4'-DDE	<0.913	* mg/kg	0.913	SW846 8081	07/16	09:26	twh
4,4'-DDT	<0.913	* mg/kg	0.913	SW846 8081	07/16	09:26	twh
Aldrin	<0.913	* mg/kg	0.913	SW846 8081	07/16	09:26	twh
alpha-BHC	<0.913	* mg/kg	0.913	SW846 8081	07/16	09:26	twh
beta-BHC	<0.913	* mg/kg	0.913	SW846 8081	07/16	09:26	twh
Chlordane	<2.28	* mg/kg	2.28	SW846 8081	07/16	09:26	twh
delta-BHC	<0.913	* mg/kg	0.913	SW846 8081	07/16	09:26	twh
Dieldrin	<0.913	* mg/kg	0.913	SW846 8081	07/16	09:26	twh
Endosulfan I	<0.913	* mg/kg	0.913	SW846 8081	07/16	09:26	twh
Endosulfan II	<0.913	* mg/kg	0.913	SW846 8081	07/16	09:26	twh
Endosulfan sulfate	<0.913	* mg/kg	0.913	SW846 8081	07/16	09:26	twh
Endrin	<0.913	* mg/kg	0.913	SW846 8081	07/16	09:26	twh
Endrin aldehyde	<0.913	* mg/kg	0.913	SW846 8081	07/16	09:26	twh
Heptachlor	<0.913	* mg/kg	0.913	SW846 8081	07/16	09:26	twh
Heptachlor Epoxide	<0.913	* mg/kg	0.913	SW846 8081	07/16	09:26	twh
Lindane (Gamma BHC)	<0.913	* mg/kg	0.913	SW846 8081	07/16	09:26	twh
Toxaphene	<4.57	* mg/kg	4.57	SW846 8081	07/16	09:26	twh
VOLATILES							
1,1,1-Trichloroethane	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
1,1,2,2-Tetrachloroethane	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
1,1,2-Trichloroethane	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
1,1-Dichloroethane	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
1,1-Dichloroethylene	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf

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Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:

Richard Wolfe
Technical Director

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Date of Report: 07/26/11
Project Number: 1155051
Lab ID: 0124-11-0025714
Account Rep: Richard Wolfe
Date Received: 07/06/11
Date Collected: 07/05/11
Time Collected: 08:35
Collected By: Client

Sample Description: Belt Press Sludge, 11-5911

* Results expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
1,2-Dichloroethane	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
1,2-Dichloropropane	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
2-Chloroethylvinyl Ether	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
Acrolein	<1100	* ug/kg	1100	SW846 8260	07/13	08:46	gxf
Acrylonitrile	<1100	* ug/kg	1100	SW846 8260	07/13	08:46	gxf
Benzene	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
Bromoform (Tribromomethane)	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
Bromomethane (Methyl Bromide)	<230	* ug/kg	230	SW846 8260	07/13	08:46	gxf
Carbon Tetrachloride	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
Chlorobenzene (Monochlorobenzene)	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
Chlorodibromomethane	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
Chloroethane	<230	* ug/kg	230	SW846 8260	07/13	08:46	gxf
Chloroform	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
Chloromethane (Methyl Chloride)	<230	* ug/kg	230	SW846 8260	07/13	08:46	gxf
cis-1,2-Dichloroethylene	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
cis-1,3-Dichloropropylene	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
Dichlorobromomethane	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
Ethylbenzene	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
Library Search, Volatiles	See Comment	ug/kg	30	SW846 8260	07/13	08:46	gxf
Methylene Chloride	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
Tetrachloroethylene	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
Toluene	260	* ug/kg	110	SW846 8260	07/13	08:46	gxf
trans-1,2-Dichloroethylene	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
trans-1,3-Dichloropropylene	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
Trichloroethylene	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf
Trichlorofluoromethane	<110	* ug/kg	110	SW846 8260	07/13	08:46	gxf

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4th QTR

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 12/19/11
Project Number: 1168070
Lab ID: 124-11-0047181
Date Collected: 11/21/11 08:45
Collected By: CLIENT
Date Received: 11/23/11 15:10

Sample Desc: Raw 11-10359 (Quarterly, Composite) INFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	6.4	mg/l	.5	10	SM 4500P-E	11/29	09:40	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.8	11/28	13:36	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.7	11/28	14:42	LNA
Chromium, Total	0.013	mg/l	.005	1	EPA 200.7	11/28	14:42	LNA
Copper, Total	0.061	mg/l	.005	1	EPA 200.7	11/28	14:42	LNA
Lead, Total	0.01	mg/l	.01	1	EPA 200.7	11/28	14:42	LNA
Mercury, Total	0.0001	mg/l	.0001	1	EPA 245.1	12/16	11:30	JAW
Molybdenum, Total	0.04	mg/l	.01	1	EPA 200.7	11/28	14:42	LNA
Nickel, Total	0.007	mg/l	.005	1	EPA 200.7	11/28	14:42	LNA
Silver, Total	<.005	mg/l	.005	1	EPA 200.8	11/28	13:36	RLS
Zinc, Total	0.252	mg/l	.05	1	EPA 200.7	11/28	14:42	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	11/30	17:44	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	11/28	07:00	MEB

COMMENTS

01 One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
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815 Washington St.
Reading PA 19601

Date of Report: 12/08/11
Project Number: 1168070
Lab ID: 124-11-0047179
Date Collected: 11/22/11 08:46
Collected By: Client
Date Received: 11/23/11 15:10

Sample Desc: Raw 11-10360 (Quarterly, Grab) INFLUENT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	11/29	14:17	JCL
Cyanide, Total	0.007	mg/l	.004	1	10204001X	11/29	14:17	JCL
Phenols (4AAP)	0.089	mg/l	.01	1	EPA 420.4	11/29	12:40	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	20	mg/l	5	1	EPA 1664	11/28	10:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	11/28	14:15	WXC

Distribution of Reports:

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Technical Director

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4th Qtr. Eff + Inf

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

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Sample Desc: Final 11-10371 (Quarterly, Composite) EFFLUENT

Date of Report: 12/16/11
Project Number: 1168070
Lab ID: 124-11-0047180
Date Collected: 11/21/11 09:25
Collected By: CLIENT
Date Received: 11/23/11 15:10

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	3.26	mg/l	.25	5	SM 4500P-E	11/29	09:40	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.8	11/28	13:36	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.7	11/28	14:42	LNA
Chromium, Total	<.005	mg/l	.005	1	EPA 200.7	11/28	14:42	LNA
Copper, Total	0.012	mg/l	.005	1	EPA 200.7	11/28	14:42	LNA
Lead, Total	<.01	mg/l	.01	1	EPA 200.7	11/28	14:42	LNA
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	12/16	11:30	JAW
Molybdenum, Total	0.01	mg/l	.01	1	EPA 200.7	11/28	14:42	LNA
Nickel, Total	<.005	mg/l	.005	1	EPA 200.7	11/28	14:42	LNA
Silver, Total	<.005	mg/l	.005	1	EPA 200.8	11/28	13:36	RLS
Zinc, Total	0.070	mg/l	.05	1	EPA 200.7	11/28	14:42	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	11/30	17:44	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	11/28	07:00	MEB

COMMENTS

01 One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.

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815 Washington St.
Reading PA 19601

Date of Report: 12/08/11
Project Number: 1168070
Lab ID: 124-11-0047178
Date Collected: 11/22/11 08:08
Collected By: Client
Date Received: 11/23/11 15:10

Sample Desc: Final 11-10350 (Quarterly, Grab) effluent

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	0.004	mg/l	.004	1	DEP 1	11/29	14:17	JCL
Cyanide, Total	0.006	mg/l	.004	1	10204001X	11/29	14:17	JCL
Phenols (4AAP)	0.026	mg/l	.01	1	EPA 420.4	11/29	12:40	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	<5	mg/l	5	1	EPA 1664	11/28	10:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	11/28	14:15	WXC

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.

4th QTR
6th

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

JAN 09 2012

Date of Report: 12/21/11
Project Number: 1170051
Lab ID: 124-11-0049581
Date Collected: 12/12/11 10:40
Collected By: CLIENT
Date Received: 12/14/11 15:30

Sample Desc: 6th 11-11026 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	5.0	mg/l	.5	10	SM 4500P-E	12/15	10:00	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	12/15	11:48	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.7	12/20	11:42	LNA
Chromium, Total	0.022	mg/l	.005	1	EPA 200.7	12/20	11:42	LNA
Copper, Total	0.058	mg/l	.01	1	EPA 200.7	12/20	11:42	LNA
Lead, Total	0.01	mg/l	.01	1	EPA 200.7	12/20	11:42	LNA
Mercury, Total	0.0001	mg/l	.0001	1	EPA 245.1	12/20	11:41	RLS
Molybdenum, Total	0.05	mg/l	.01	1	EPA 200.7	12/20	11:42	LNA
Nickel, Total	0.013	mg/l	.005	1	EPA 200.7	12/20	11:42	LNA
Silver, Total	<.005	mg/l	.005	1	EPA 200.7	12/15	13:18	LNA
Zinc, Total	0.231	mg/l	.005	1	EPA 200.7	12/20	11:42	LNA

Distribution of Reports:

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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Sample Desc: 6th 11-11027 (Grab)

JAN 03 2012

Date of Report: 12/21/11
Project Number: 1170051
Lab ID: 124-11-0049582
Date Collected: 12/13/11 10:39
Collected By: CLIENT
Date Received: 12/14/11 15:30

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phenols (4AAP)	0.102	mg/l	.01	1	EPA 420.4	12/16	10:05	JCL
O&G/TPH								
GENERAL								
Oil and Grease	23	mg/l	5	1	EPA 1664	12/15	08:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	12/16	09:00	WXC

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 12/21/11
Project Number: 1170051
Lab ID: 124-11-0049578
Date Collected: 12/13/11 10:35
Collected By: CLIENT
Date Received: 12/14/11 15:30

Sample Desc: 6th & Canal 11-11029 (Grab)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	12/16	12:31	JCL
Cyanide, Total	0.014	mg/l	.004	1	10204001X	12/16	12:31	JCL

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.

4th Qtr - GC v6th

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

JAN 03 2012

Sample Desc: GC 11-11028 (Composite) GRIT

Date of Report: 12/21/11
Project Number: 1170051
Lab ID: 124-11-0049579
Date Collected: 12/12/11 11:00
Collected By: CLIENT
Date Received: 12/14/11 15:30

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	3.8	mg/l	.5	10	SM 4500P-E	12/15	10:00	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	12/15	11:48	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.7	12/20	11:42	LNA
Chromium, Total	<.005	mg/l	.005	1	EPA 200.7	12/20	11:42	LNA
Copper, Total	0.064	mg/l	.01	1	EPA 200.7	12/20	11:42	LNA
Lead, Total	<.01	mg/l	.01	1	EPA 200.7	12/20	11:42	LNA
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	12/20	11:41	RLS
Molybdenum, Total	<.01	mg/l	.01	1	EPA 200.7	12/20	11:42	LNA
Nickel, Total	<.005	mg/l	.005	1	EPA 200.7	12/20	11:42	LNA
Silver, Total	<.005	mg/l	.005	1	EPA 200.7	12/15	13:18	LNA
Zinc, Total	0.121	mg/l	.005	1	EPA 200.7	12/20	11:42	LNA

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

JAN 03 2012

Date of Report: 12/21/11
Project Number: 1170051
Lab ID: 124-11-0049580
Date Collected: 12/13/11 11:03
Collected By: CLIENT
Date Received: 12/14/11 15:30

Sample Desc: GC 11-11029 (Grab) GRIT

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/l	.004	1	DEP 1	12/16	12:31	JCL
Cyanide, Total	0.006	mg/l	.004	1	10204001X	12/16	12:31	JCL
Phenols (4AAP)	0.100	mg/l	.01	1	EPA 420.4	12/16	10:05	JCL
O&G/TPH								
GENERAL								
Oil and Grease	16	mg/l	5	1	EPA 1664	12/15	08:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/l	5	1	EPA 1664	12/16	09:00	WXC

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.

4th Qtr Biosolids

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Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 11/16/11
Project Number: 1166692
Lab ID: 0124-11-0043914
Account Rep: Richard Wolfe
Date Received: 11/02/11
Date Collected: 11/01/11
Time Collected: 08:50
Collected By: Client

Sample Description: Belt Press Sludge (Quarterly, Composite)

* Results expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
CHEMISTRY							
COLORMETRIC							
Cyanide, Free	<1.99	* mg/kg	1.99	DEP 1	11/03	16:23	jcl
Cyanide, Total	10	* mg/kg	2.0	10204001X	11/03	16:23	jcl
Phenols (4AAP)	34	* mg/kg	5.0	EPA 420.4	11/09	12:06	jcl
Phosphorus as P, Total	21100	* mg/kg	622	SM 4500P-E	11/09	13:10	ald
PHYSICAL							
Visual Color	See Comment	descript.	0	VISUAL	11/15	08:10	ald
SIDUES							
Total Solids	20.1	%	1	SM 2540G	11/03	18:15	jxs
INORGANIC							
TOTAL							
Chromium, Total	106	* mg/kg	2.49	SW846 6010	11/04	13:07	lna
Silver, Total	9.4	* mg/kg	2.5	SW846 6010	11/07	09:32	lna
O&G/TPH							
GENERAL							
N-Hexane Extractable Material (O&G)	25120	* mg/kg	1244	EPA 1664	11/07	06:15	wxc
Silica Gel Treated N-Hexane Extract(TPH)	5995	* mg/kg	1244	EPA 1664	11/08	12:45	wxc
ORGANIC							
BASE NEUTRALS							
Bis(2-Ethylhexyl) phthalate	<24.9	* mg/kg	24.9	SW846 8270	11/14	13:00	meb
EXTRACTION							
SW846 8270 Extraction	Complete		0	SW846 8270	11/14	13:00	meb

COMMENTS:
1 - Color/visual: Dark gray to black.

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:

Richard Wolfe
Technical Director

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2011 WEEKLY MERCURY TESTING AT PLANT INFLUENT POINTS AND PLANT EFFLUENT

MONTHLY FECAL COLIFORM TESTING FOR BIOSOLIDS

MONTHLY 503 ANALYSIS FOR PLANT BIOSOLIDS

BIOSOLIDS FORM 43 PERFORMED 3/4/11 AND 8/2/11

Mercury Testing for 2011 at Plant Influent Points and Plant Effluent

Date		Grit Chamber mg/L		6th Street mg/L		Influent mg/L		Effluent mg/L
01/04/11	<	0.00007		0.0001		0.0002	<	0.00007
01/05/11	<	0.00007		0.0003		0.0005	<	0.00007
01/11/11	<	0.00007		0.00008		0.0003	<	0.00007
1/18/2011		0.0001		0.0001		0.0004	<	0.00007
1/25/2011		0.00007		0.00009		0.0002	<	0.00007
2/1/2011		0.0004		0.0002		0.0002	<	0.00007
2/8/2011		0.00008	<	0.00007		0.0001	<	0.00007
2/9/2011		0.00009		0.0003		0.0002	<	0.00007
2/16/2011		0.0001		0.00007		0.0002	<	0.00007
2/22/2011		0.00007		0.0002	<	0.00007	<	0.00007
3/2/2011		0.0002		0.0008		0.0004	<	0.00007
3/8/2011	<	0.00007		0.0003		0.0001	<	0.00007
3/9/2011		0.00007		0.00007		0.0002	<	0.00007
3/15/2011	<	0.00007	<	0.00007		0.0001	<	0.00007
3/22/2011		0.0053	<	0.00007		0.0001	<	0.00007
3/29/2011	<	0.00007		0.00007		0.0011	<	0.00007
4/5/2011		0.0003	<	0.0001		0.0009	<	0.0001
4/6/2011	<	0.0001	<	0.0001		0.0005	<	0.0001
4/12/2011	<	0.0001	<	0.0001		0.0002	<	0.0001
4/19/2011		0.0001	<	0.0001		0.0002	<	0.0001
4/26/2011	<	0.0001	<	0.0001		0.0001	<	0.0001
5/3/2011	<	0.0001	<	0.0001		0.0003	<	0.0001
5/9/2011						0.0001	<	0.0001
5/10/2011	<	0.0001	<	0.0001		0.001	<	0.0001
5/17/2011		0.0002	<	0.0001	<	0.0001	<	0.0001
5/24/2011	<	0.0001		0.001		0.0013	<	0.0001
5/31/2011	<	0.0001	<	0.0001		0.0002	<	0.0001
6/7/2011	<	0.0001	<	0.0001		0.0001	<	0.0001
6/9/2011		0.0001		0.0002		0.0002	<	0.0001
6/14/2011		0.0003	<	0.0001		0.0002	<	0.0001
6/21/2011	<	0.0001		0.0006	<	0.0001	<	0.0001
6/28/2011		0.0002		0.0001		0.0002	<	0.0001
7/5/2011		0.0006	<	0.0001		0.0002	<	0.0001
7/7/2011	<	0.0001	<	0.0001		0.0005	<	0.0001
7/12/2011	<	0.0001	<	0.0001	<	0.0001	<	0.0001
7/19/2011	<	0.0001		0.0001		0.0003	<	0.0001
7/26/2011	<	0.0001	<	0.0001	<	0.0001	<	0.0001
8/2/2011	<	0.0001	<	0.0001	<	0.0001	<	0.0001
8/3/2011	<	0.0001		0.0001		0.0001	<	0.0001
8/9/2011	<	0.0001		0.0006	<	0.0001	<	0.0001
8/16/2011	<	0.0001	<	0.0001		0.0003	<	0.0001
8/18/2011						0.0005	<	0.0001
8/23/2011	<	0.0001		0.0003	<	0.0001	<	0.0001
8/30/2011	<	0.0001		0.0005	<	0.0001	<	0.0001

Date		Grit Chamber mg/L		6th Street mg/L		Influent mg/L		Effluent mg/L
9/6/2011	<	0.0001	<	0.0001		0.0001	<	0.0001
9/7/2011	<	0.0001	<	0.0001	<	0.0001	<	0.0001
9/13/2011		0.0001		0.0001		0.0002	<	0.0001
9/20/2011	<	0.0001		0.0001		0.0001	<	0.0001
9/27/2011		0.0005		0.0001		0.0002	<	0.0001
9/28/2011							<	0.0001
9/29/2011							<	0.0001
9/30/2011							<	0.0001
10/4/2011	<	0.0001		0.0002		0.0005	<	0.0001
10/5/2011	<	0.0001		0.0002		0.0001	<	0.0001
10/11/2011		0.0001	<	0.0001		0.0001	<	0.0001
10/18/2011	<	0.0001		0.0002		0.0001	<	0.0001
10/25/2011		0.0001		0.0005		0.0002	<	0.0001
11/1/2011	<	0.0001	<	0.0001	<	0.0001	<	0.0001
11/8/2011		0.0001	<	0.0001		0.0002	<	0.0001
11/15/2011	<	0.0001		0.0001		0.0003	<	0.0001
11/16/2011	<	0.0001		0.0002		0.0004	<	0.0001
11/22/2011 *		0.0002		0.0002		* 0.0001	<	* 0.0001
11/29/2011		0.0002		0.0002		0.0002	<	0.0001
12/6/2011	<	0.0001	<	0.0001		0.0003	<	0.0001
12/7/2011		0.0002	<	0.0001		0.0001	<	0.0001
12/12/2011	<	0.0001		0.0001				
12/13/2011						0.0002	<	0.0001
12/20/2011		0.0001		0.0001		0.0002	<	0.0001
12/27/2011	<	0.0001	<	0.0001		0.0002	<	0.0001

Fecal Coliform for Biosolids

Sample Date	Sample ID	Analyst	Result Colonies/gram
1/12/2011	#1	JAH	117,101
1/12/2011	#2	JAL	188,317
1/13/2011	#3	JAH	91,087
1/14/2011	#4	DMN	58,063
1/14/2011	#5	DMN	58,724
1/19/2011	#6	JAL	104,456
1/19/2011	#7	JAL	85,349
2/8/2011	#1	JAL	54,784
2/8/2011	#2	DMN	26,288
2/9/2011	#3	JAH	55,627
2/9/2011	#4	JAH	70,162
2/10/2011	#5	JAH	46,809
2/10/2011	#6	JAH	50,743
2/11/2011	#7	JAH	54,132
3/11/2011	#1	JAL	103,615
3/11/2011	#2	JAL	85,158
3/15/2011	#3	ADM	49,998
3/15/2011	#4	ADM	31,947
3/15/2011	#5	ADM	31,399
3/16/2011	#6	JAL	61,514
3/16/2011	#7	JAL	237,177
4/4/2011	#1	JAH	61,019
4/4/2011	#2	JAH	64,815
4/5/2011	#3	JAH	85,401
4/5/2011	#4	JAH	66,452
4/6/2011	#5	JAH	1,531
4/6/2011	#6	JAH	7,502
4/7/2011	#7	ADM	37,170
5/10/2011	#1	JAH	45,419
5/10/2011	#2	JAH	47,370

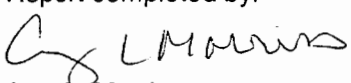
Fecal Coliform for Biosolids

Sample Date	Sample ID	Analyst	Result Colonies/gram
5/11/2011	#3	JAH	55,602
5/11/2011	#4	JAH	52,994
5/11/2011	#5	JAH	42,257
5/12/2011	#6	JAH	65,736
5/12/2011	#7	JAH	53,246
6/7/2011	#1	JAH	20,348
6/7/2011	#2	JAH	8,664
6/8/2011	#3	JAH	36,998
6/8/2011	#4	JAH	21,454
6/10/2011	#5	DMN	14,573
6/13/2011	#6	JAH	50,153
6/13/2011	#7	JAH	48,735
7/5/2011	#1	JAH	40,203
7/6/2011	#2	JAH	299,197
7/6/2011	#3	JAH	145,422
7/7/2011	#4	PAL	65,747
7/7/2011	#5	PAL	40,858
7/8/2011	#6	DMN	31,359
7/8/2011	#7	DMN	28,238
8/4/2011	#1	ADM	14,591
8/4/2011	#2	ADM	12,363
8/5/2011	#3	ADM	59,087
8/5/2011	#4	ADM	53,970
8/8/2011	#5	ADM	22,069
8/9/2011	#6	ADM	3,064
8/9/2011	#7	ADM	3,361
9/12/2011	#1	ADM	52,369
9/13/2012	#2	PAL	54,167
9/13/2012	#3	DMN	48,104
9/13/2012	#4	DMN	51,558

Fecal Coliform for Biosolids

Sample Date	Sample ID	Analyst	Result Colonies/gram
9/23/2011	#5	JAH	34,490
9/23/2011	#6	JAH	88,830
9/26/2011	#7	ADM	60,680
10/12/2011	#1	ADM	303,200
10/12/2011	#2	ADM	321,401
10/13/2011	#3	ADM	308,661
10/13/2011	#4	ADM	278,014
10/13/2011	#5	ADM	487,511
10/18/2011	#6	ADM	106,897
10/18/2011	#7	ADM	86,478
11/15/2011	#1	JAH	117,465
11/15/2011	#2	JAH	81,071
11/15/2011	#3	JAH	113,429
11/16/2011	#4	JAH	142,857
11/16/2011	#5	JAH	176,522
11/17/2011	#6	JAH	107,143
11/17/2011	#7	PAL	77,408
12/13/2011	#1	PAL	124,505
12/13/2011	#2	PAL	93,610
12/13/2011	#3	PAL	27,628
12/14/2011	#4	PAL	73,951
12/14/2011	#5	PAL	209,713
12/15/2011	#6	PAL	71,158
12/15/2011	#7	ADM	42,000

Report completed by:



Amy L. Morriss
Laboratory Supervisor
City of Reading WWTP

PENNSTATE

Agricultural Analytical Services Laboratory
College of Agricultural Sciences
The Pennsylvania State University
University Park, PA 16802

Phone: 814-863-0841
Fax: 814-863-4540
Web: www.aasl.psu.edu

PA DEP Lab ID # 14-00588

FEB 04 2011
DEPT. OF PUBLIC WORKS

Analysis Report for Use of Biosolids on Cropland

Amy Morriss
City of Reading WWTP
815 Washington St
Reading PA 19601

Lab Sample ID: E14499
Date Received: January 10, 2011
Date Sampled: 1/5/11
Report Date: 1/26/11
Sample type: Composite
County: Berks
Customer Sample ID: Belt Press Biosolids 11-148

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
@ 21.3	— % —	% (dry weight basis)										
7.8	18.33	64.68	5.13	4.30	0.83	1.96	0.12	0.41	6.58	0.10	1.09	0.76

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
mg/kg (dry weight basis)												
5200.9	3.13	3.34	96.2	535.9	116.7	1.67	46.5	42.3	7.59	1597.1	< 1.47	< 1

NR-Not Requested One dry ton of this material is equivalent to 1308 gallons of wet material or 5.5 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
tal N	5.13	0.97	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	4.48	2.55	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.15		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	1/14/2011	9:40:20
As	3050B + 6010	Brooks	1/14/2011	9:40:20
Se	3050B + 6010	Brooks	1/14/2011	9:40:20
Hg	7473	Brooks	1/18/2011	9:05:26 AM
PCB	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	1.871	1.871	1.871	0.419	1.871	1.871	1.871	1.871	1.871
Analyte conc. in sample/ digest (mg/L except Hg)	0.021	0.023	3.68	0.128 ug	0.32	0.29	0.80	0.05	10.96
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.005	0.020	0.015	0.008

Optional Analyses: Results (except soluble salts) on dry weight basis

te-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:

Sample Receipt

Ambient Temperature

ID: E14499

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION

	mg/kg	*Acceptable*	*Pollutant Limit*	*Acceptable-increased monitoring*	*Ceiling Limit*	*Exceeds ceiling limits*
As	3.13	0	41		75	
Cd	3.34	0	39		85	
Cu	535.9	0	1500		4300	
Pb	116.7	0	300		840	
Hg	1.67	0	17		57	
Mo	46.5	0	75			
Ni	42.3	0	420			
Se	7.59	0	100			
Zn	1597.1	0	2800		7500	
PCB[1]	< 1.47	0	4		8.6	

[1]DEP limit only

PENNSTATE

Agricultural Analytical Services Laboratory
College of Agricultural Sciences
The Pennsylvania State University
University Park, PA 16802

Phone: 814-863-0841
Fax: 814-863-4540
Web: www.aasl.psu.edu

PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Amy Morriss
City of Reading WWTP
815 Washington St
Reading PA 19601

Lab Sample ID:	E14538
Date Received:	February 4, 2011
Date Sampled:	2/2/11
Report Date:	3/11/11
Sample type:	Composite
County:	Berks
Customer Sample ID:	Belt Press Sludge

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
	%					% (dry weight basis)						
21.6												
8.1	23.12	62.86	4.89	4.19	0.70	2.04	0.10	0.38	8.76	0.12	0.96	0.63

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
					mg/kg (dry weight basis)							
736.3	2.18	2.87	87.5	451.6	96.0	2.02	49.0	44.3	7.92	1393.3	<.13	< 1

NR-Not Requested One dry ton of this material is equivalent to 1037 gallons of wet material or 4.3 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
Total N	4.89	1.02	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	4.67	2.45	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.12		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B ÷ 6010	Brooks	2/11/2011	9:40:40
As	3050B ÷ 6010	Brooks	2/11/2011	9:40:40
Se	3050B ÷ 6010	Brooks	2/11/2011	9:40:40
Hg	7473	Brooks	2/7/2011	2:21:27 PM
PCB	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.518	2.518	2.518	0.302	2.518	2.518	2.518	2.518	2.518
Analyte conc. in sample/ digest (mg/L except Hg)	0.025	0.033	5.26	0.141 ug	0.57	0.52	1.12	0.09	16.22
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.005	0.020	0.015	0.008

Optional Analyses: Results (except soluble salts) on dry weight basis

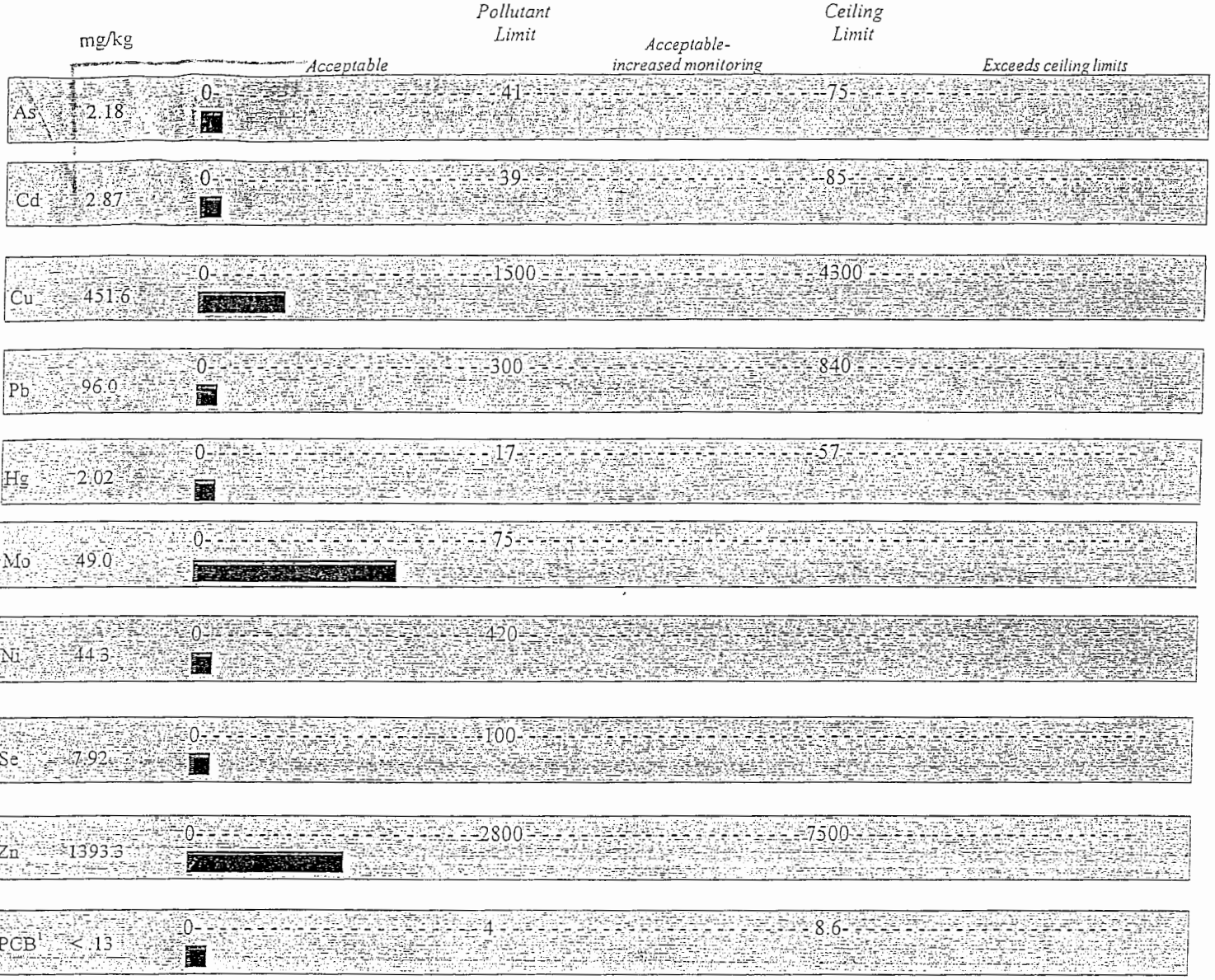
Nitrate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:

Sample Receipt

Ambient Temperature

ID: E14538

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION



[1]DEP limit only

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Agricultural Analytical Services Laboratory
College of Agricultural Sciences
The Pennsylvania State University
University Park, PA 16802

Phone: 814-863-0841
Fax: 814-863-4540
Web: www.aasl.psu.edu

PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Amy Morriss
City of Reading WWTP
815 Washington St
Reading PA 19601

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Lab Sample ID: E14590
Date Received: March 11, 2011
Date Sampled: 3/4/2011
Report Date: 3/25/11
Sample type: Composite
County: Berks
Customer Sample ID: Biosolids

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
@ 21.8	— % —	% (dry weight basis)										
7.9	17.67	67.69	2.44	1.56	0.88	1.98	0.13	0.46	5.18	0.13	1.05	0.81

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
mg/kg (dry weight basis)												
5141.6	4.66	3.53	114.6	551.6	113.8	2.22	58.5	57.6	9.38	1568.4	< .31	< 1

NR-Not Requested One dry ton of this material is equivalent to 1357 gallons of wet material or 5.7 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
al N	2.44	2.05	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	4.53	2.53	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.15		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	3/17/2011	8:51:58
As	3050B + 6010	Brooks	3/17/2011	8:51:58
Se	3050B + 6010	Brooks	3/17/2011	8:51:58
Hg	7473	Rishel	3/18/2011	7:48:45 AM
PCB	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.007	2.007	2.007	0.345	2.007	2.007	2.007	2.007	2.007
Analyte conc. in sample/ digest (mg/L except Hg)	0.033	0.025	3.91	0.136 ug	0.41	0.41	0.81	0.07	11.12
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.005	0.020	0.015	0.008

Optional Analyses: Results (except soluble salts) on dry weight basis

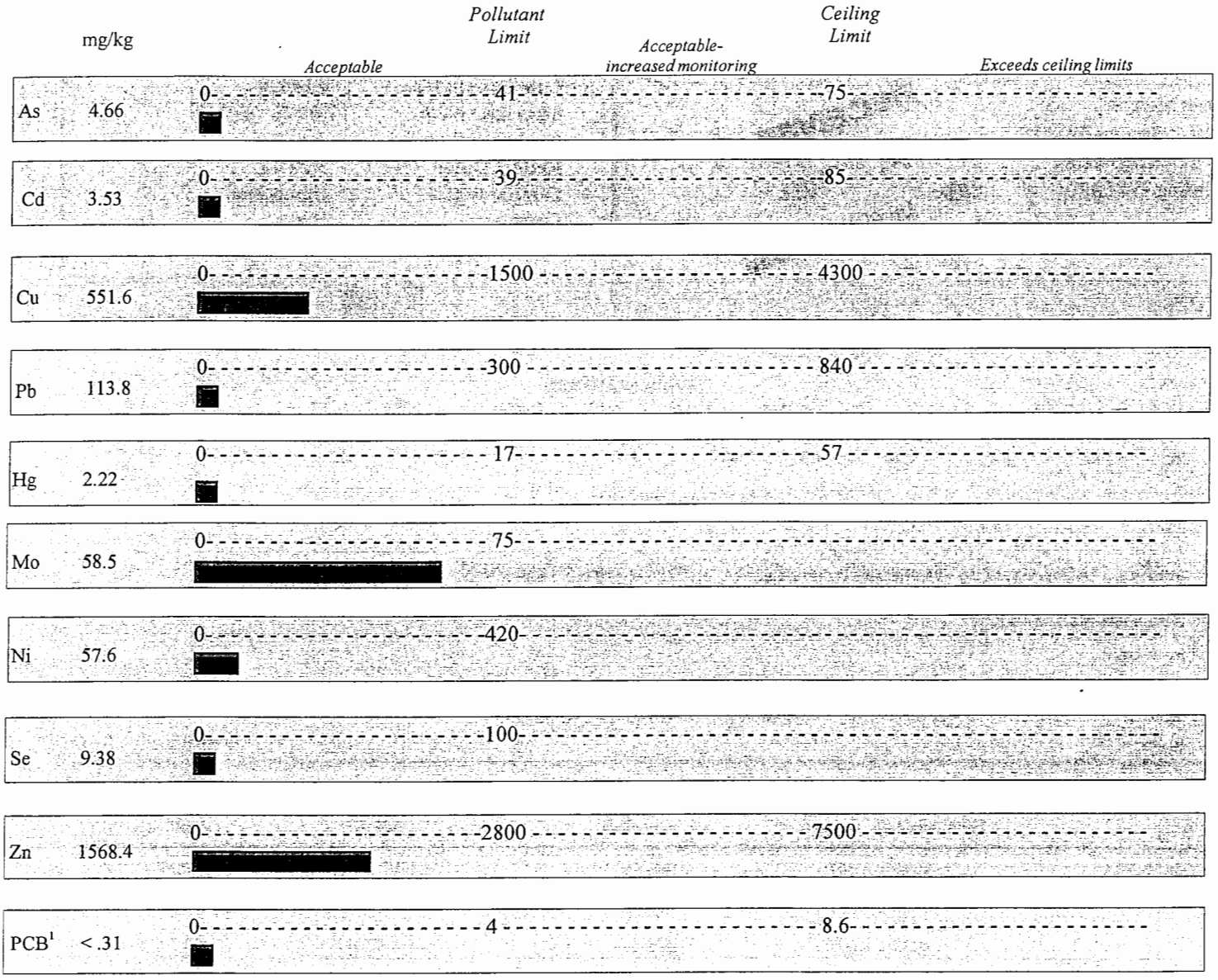
N e-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:

Sample Receipt

Ambient Temperature

ID: E14590

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION



[1]DEP limit only

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Agricultural Analytical Services Laboratory
College of Agricultural Sciences
The Pennsylvania State University
University Park, PA 16802

Phone: 814-863-0841
Fax: 814-863-4540
Web: www.aasl.psu.edu

PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Amy Morriss
City of Reading WWTP
815 Washington St
Reading PA 19601

Lab Sample ID:	**E14644**
Date Received:	April 13, 2011
Date Sampled:	4/6/11
Report Date:	5/5/11
Sample type:	Composite
County:	Berks
Customer Sample ID:	Belt Press Sludge

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH_4 N	P	K	Mg	Ca	Na	Fe	Al
@ 21.9	— % —	% (dry weight basis)										
7.9	17.95	66.55	5.65	4.71	0.94	1.92	0.13	0.39	6.12	0.11	1.24	0.79

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
mg/kg (dry weight basis)												
2155.2	3.1	4.11	144.4	413.9	122.0	2.91	67.5	75.2	7.46	1567.8	< .3	< 1

NR-Not Requested One dry ton of this material is equivalent to 1336 gallons of wet material or 5.6 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
Total N	5.65	0.88	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	4.41	2.60	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.16		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	4/22/2011	14:23:46
As	3050B + 6010	Brooks	4/22/2011	14:23:46
Se	3050B + 6010	Brooks	4/22/2011	14:23:46
Hg	7473	Rishel	4/20/2011	9:09:21 AM
PCB	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	3.769	3.769	3.769	0.273	3.769	3.769	3.769	3.769	3.769
Analyte conc. in sample/ digest (mg/L except Hg)	0.042	0.056	5.60	0.143 ug	0.91	1.02	1.65	0.10	21.21
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.005	0.020	0.015	0.008

Optional Analyses: Results (except soluble salts) on dry weight basis

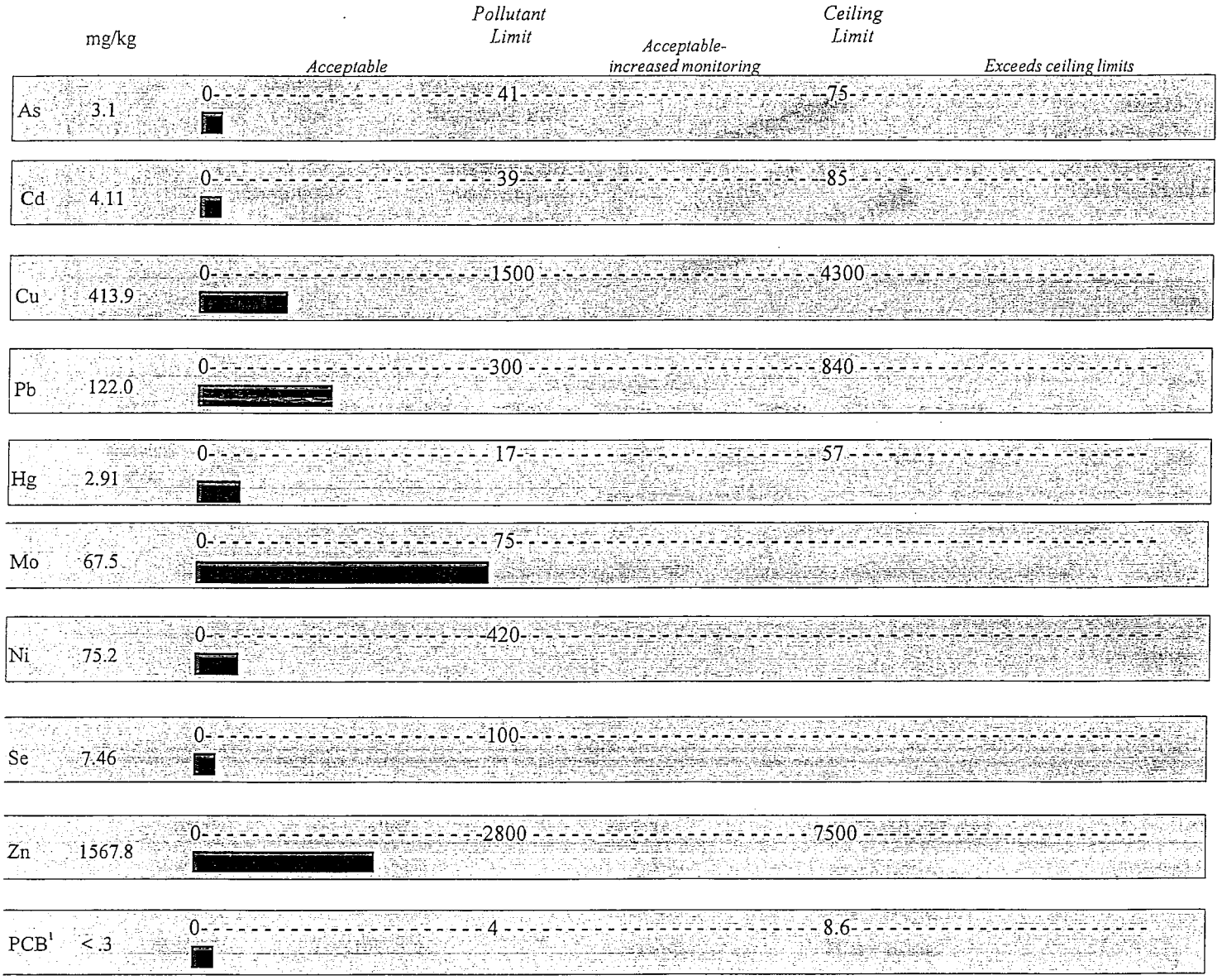
N e-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:

Sample Receipt

Ambient Temperature

ID: E14644

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION



[1]DEP iimit only

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Agricultural Analytical Services Laboratory
College of Agricultural Sciences
The Pennsylvania State University
University Park, PA 16802

Phone: 814-863-0841
Fax: 814-863-4540
Web: www.aasl.psu.edu

PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Amy Morriss
City of Reading WWTP
815 Washington St
Reading PA 19601

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Lab Sample ID:	**E14673**
Date Received:	May 9, 2011
Date Sampled:	5/4/11
Report Date:	5/31/11
Sample type:	Composite
County:	Berks
Customer Sample ID:	Beltpress Sludge

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
@ 22.4	— % —					% (dry weight basis)						
8.1	17.88	66.50	5.60	4.67	0.94	2.01	0.13	0.44	5.31	0.10	1.26	0.81

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
					mg/kg (dry weight basis)							
1490.4	3.75	4.04	131.6	556.6	159.6	2.16	71.6	75.2	6.37	1651.6	< .3	< 1

NR-Not Requested One dry ton of this material is equivalent to 1341 gallons of wet material or 5.6 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
Total N	5.60	0.89	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	4.61	2.48	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.16		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	5/27/2011	10:52:28
As	3050B + 6010	Brooks	5/27/2011	10:52:28
Se	3050B + 6010	Brooks	5/27/2011	10:52:28
Hg	7473	Brooks	5/11/2011	1:36:08 PM
PCB	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.537	2.537	2.537	0.379	2.537	2.537	2.537	2.537	2.537
Analyte conc. in sample/ digest (mg/L except Hg)	0.034	0.037	5.05	0.147 ug	0.65	0.68	1.45	0.06	14.99
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.005	0.020	0.015	0.008

Optional Analyses: Results (except soluble salts) on dry weight basis

Nitrate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:

Sample Receipt

Ambient Temperature

ID: E14673

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION

	mg/kg	*Acceptable*	*Pollutant Limit*	*Acceptable-increased monitoring*	*Ceiling Limit*	*Exceeds ceiling limits*
As	3.75	0	41		75	
Cd	4.04	0	39		85	
Cu	556.6	0	1500		4300	
Pb	159.6	0	300		840	
Hg	2.16	0	17		57	
Mo	71.6	0	75			
Ni	75.2	0	420			
Se	6.37	0	100			
Zn	1651.6	0	2800		7500	
PCB[1]	< .3	0	4		8.6	

[1]DEP limit only

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Agricultural Analytical Services Laboratory
College of Agricultural Sciences
The Pennsylvania State University
University Park, PA 16802

Phone: 814-863-0841
Fax: 814-863-4540
Web: www.aasl.psu.edu

PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Amy Morriss
City of Reading WWTP
815 Washington St
Reading PA 19601

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Lab Sample ID:	**E14741**
Date Received:	June 16, 2011
Date Sampled:	6/8/11
Report Date:	7/1/11
Sample type:	Composite
County:	Berks
Customer Sample ID:	Belt press sludge 11-5059

RESULTS

pH @ 23 C	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
	— % —	% (dry weight basis)										
8.0	19.32	66.65	5.38	4.39	0.99	2.03	0.10	0.37	5.30	0.09	1.13	0.63

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
mg/kg (dry weight basis)												
1544.2	3.77	4.04	117.1	531.8	124.0	3.08	70.7	65.1	6.23	1627.7	< .28	< 1

NR-Not Requested One dry ton of this material is equivalent to 1241 gallons of wet material or 5.2 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
al N	5.38	0.93	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	4.64	2.47	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.12		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	6/24/2011	12:11:10
As	3050B + 6010	Brooks	6/24/2011	12:11:10
Se	3050B + 6010	Brooks	6/24/2011	12:11:10
Hg	7473	Rishel	6/22/2011	7:51:48 AM
PCB	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.634	2.634	2.634	0.262	2.634	2.634	2.634	2.634	2.634
Analyte conc. in sample/ digest (mg/L except Hg)	0.038	0.041	5.41	0.156 ug	0.72	0.66	1.26	0.06	16.57
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.005	0.020	0.015	0.008

Optional Analyses: Results (except soluble salts) on dry weight basis

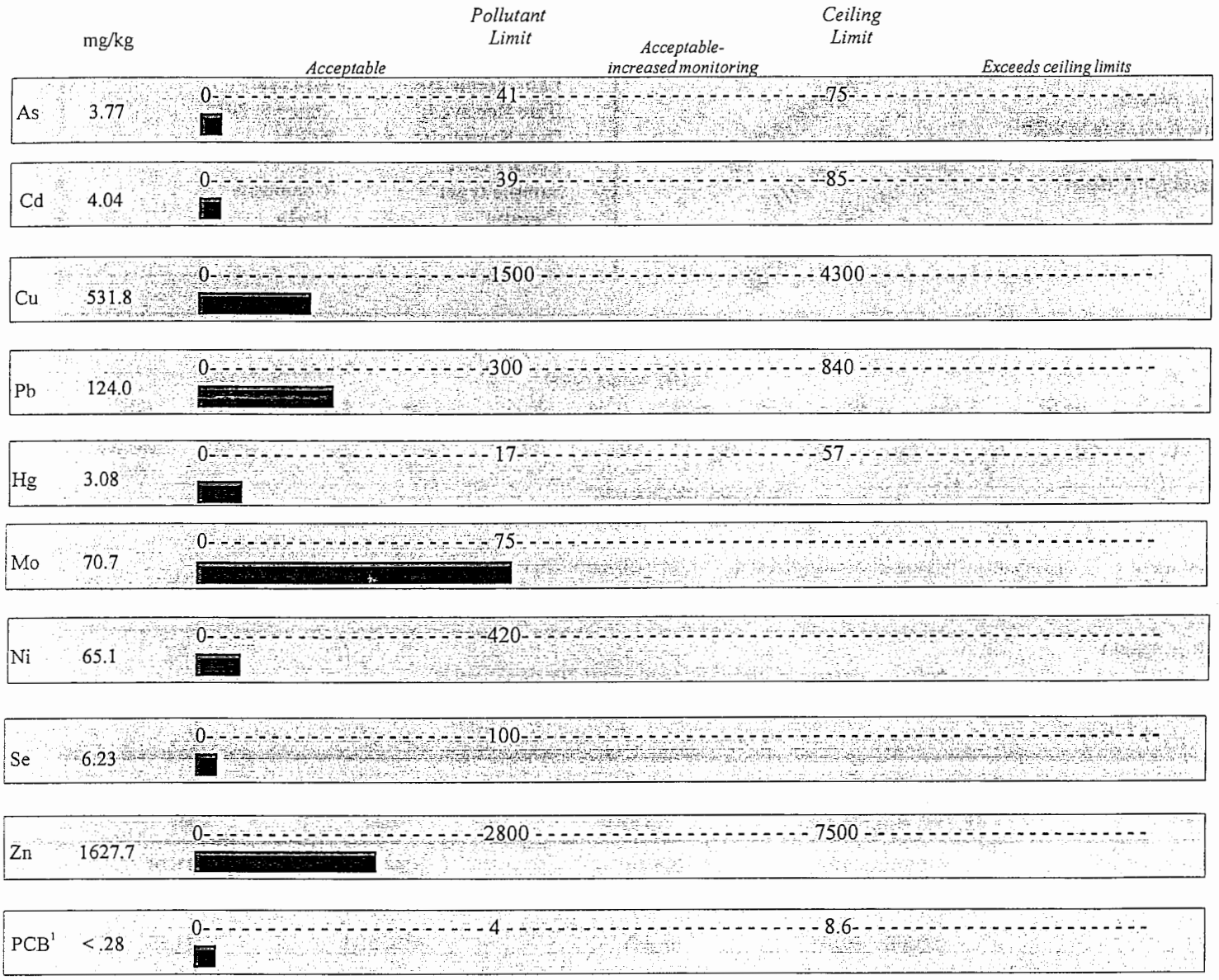
te-N (...g/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:

Sample Receipt

Ambient Temperature

ID: E14741

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION



[1]DEP limit only

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Agricultural Analytical Services Laboratory
College of Agricultural Sciences
The Pennsylvania State University
University Park, PA 16802

Phone: 814-863-0841
Fax: 814-863-4540
Web: www.aasl.psu.edu

PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Amy Morriss
City of Reading WWTP
815 Washington St
Reading PA 19601

Lab Sample ID:	**E14776**
Date Received:	July 8, 2011
Date Sampled:	7/5/11
Report Date:	7/25/11
Sample type:	Composite
County:	Berks
Customer Sample ID:	Belt Press Sludge

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
	— % —					% (dry weight basis)						
22.6												
8.0	20.91	64.96	5.21	4.29	0.92	2.09	0.09	0.43	6.50	0.10	1.23	0.72

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
					mg/kg (dry weight basis)							
847.6	4.43	4.17	145.8	582.9	137.5	3.59	83.1	86.6	7.79	1759.4	<.13	< 1

NR-Not Requested One dry ton of this material is equivalent to 1147 gallons of wet material or 4.8 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
N	5.21	0.96	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	4.78	2.39	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.11		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Stecko	7/15/2011	7:39:03
As	3050B + 6010	Stecko	7/15/2011	7:39:03
Se	3050B + 6010	Stecko	7/15/2011	7:39:03
Hg	7473	Rishel	7/11/2011	10:06:41 AM
PCB	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.274	2.274	2.274	0.360	2.274	2.274	2.274	2.274	2.274
Analyte conc. in sample/ digest (mg/L except Hg)	0.042	0.040	5.54	0.270 ug	0.79	0.82	1.31	0.07	16.73
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.005	0.020	0.015	0.008

Optional Analyses: Results (except soluble salts) on dry weight basis

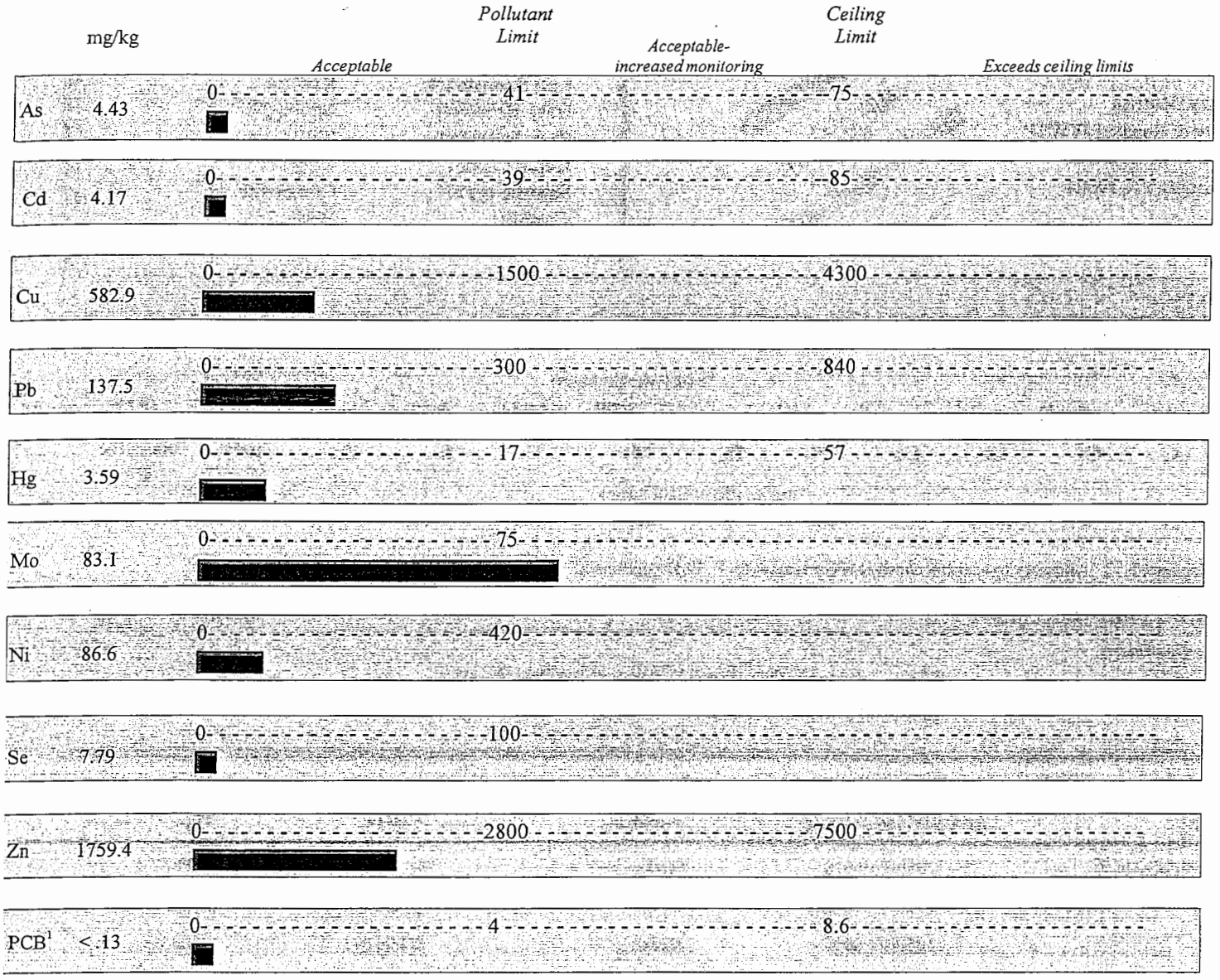
Ji[illegible]-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:

Sample Receipt

Ambient Temperature

ID: E14776

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION



[1]DEP limit only

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Agricultural Analytical Services Laboratory
College of Agricultural Sciences
The Pennsylvania State University
University Park, PA 16802

Phone: 814-863-0841
Fax: 814-863-4540
Web: www.aasl.psu.edu

PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Amy Morriss
City of Reading WWTP
815 Washington St
Reading PA 19601

RECEIVED
AUG 31 2011
DEPT. OF PUBLIC WORKS

Lab Sample ID: E14823
Date Received: August 8, 2011
Date Sampled: 8/2/11
Report Date: 8/26/11
Sample type:
County: Berks
Customer Sample ID: Belt Press Sludge 11-6825

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
@ 23.8	— % —	% (dry weight basis)										
7.9	19.79	65.63	5.50	4.49	1.01	2.15	0.10	0.46	5.68	0.11	1.43	0.74

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
mg/kg (dry weight basis)												
1293.5	3.95	4.48	162.9	668.6	219.5	2.14	86.0	98.8	8.41	2297.8	< .27	< 1

NR-Not Requested One dry ton of this material is equivalent to 1212 gallons of wet material or 5.1 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
otal N	5.50	0.91	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	4.92	2.33	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.12		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	8/12/2011	9:12:43
As	3050B + 6010	Brooks	8/12/2011	9:12:43
Se	3050B + 6010	Brooks	8/12/2011	9:12:43
Hg	7473	Brooks	8/25/2011	1:57:50 PM
PCB	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.085	2.085	2.085	0.387	2.085	2.085	2.085	2.085	2.085
Analyte conc. in sample/ digest (mg/L except Hg)	0.033	0.037	5.52	0.164 ug	0.71	0.82	1.81	0.07	18.96
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.005	0.020	0.015	0.008

Optional Analyses: Results (except soluble salts) on dry weight basis

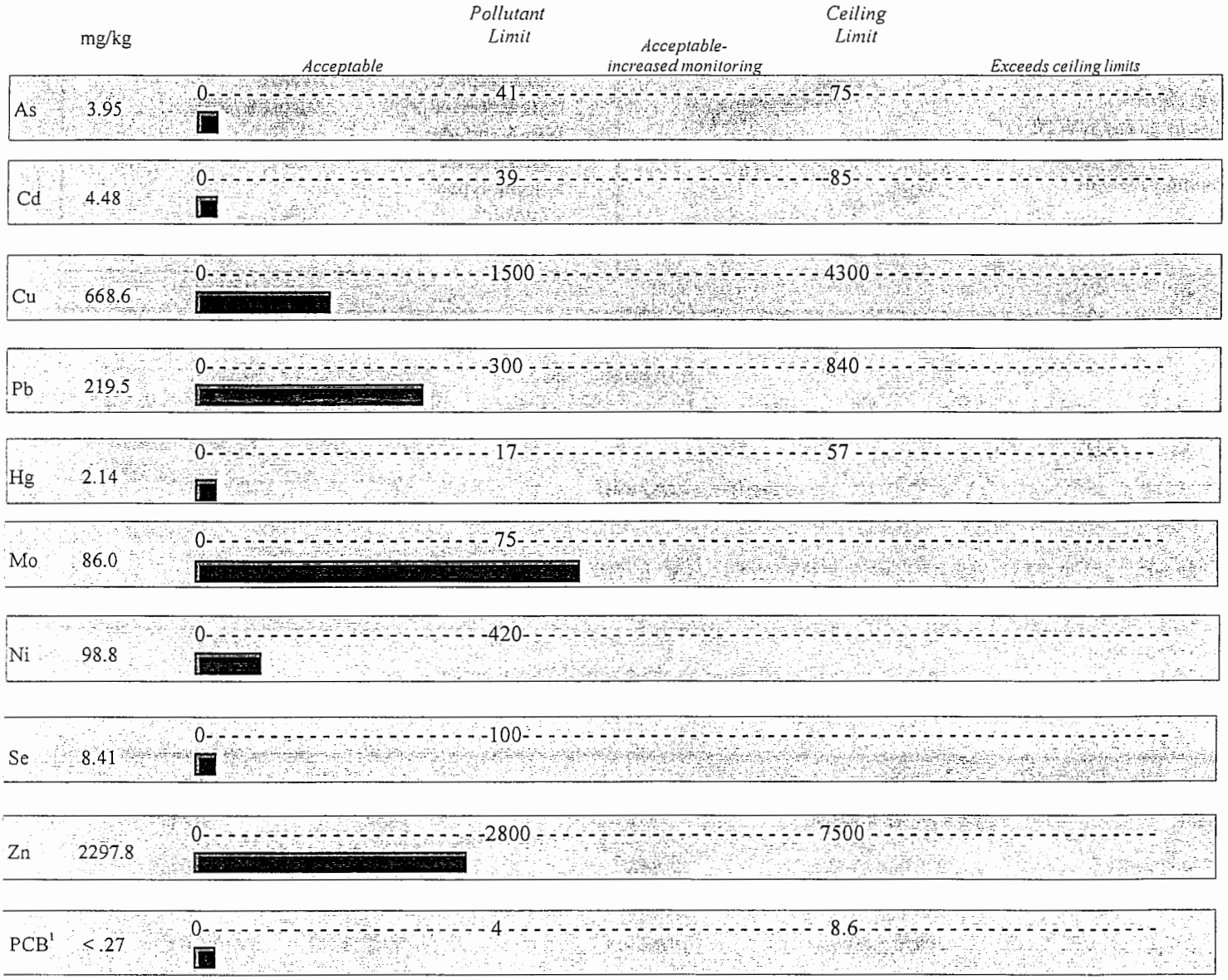
·ate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:

Sample Receipt

Ambient Temperature

ID: E14823

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION



[1]DEP limit only

PENNSTATE

Agricultural Analytical Services Laboratory
College of Agricultural Sciences
The Pennsylvania State University
University Park, PA 16802

Phone: 814-863-0841
Fax: 814-863-4540
Web: www.aasl.psu.edu

PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Amy Morriss
City of Reading WWTP
815 Washington St
Reading PA 19601

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Lab Sample ID:	**E14861**
Date Received:	September 12, 2011
Date Sampled:	9/6/11
Report Date:	9/28/11
Sample type:	Composite
County:	Berks
Customer Sample ID:	11-7959 Belt Press Sludge

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH_4 N	P	K	Mg	Ca	Na	Fe	Al
@ 22.5	— % —	% (dry weight basis)										
8.5	21.32	63.05	5.01	4.19	0.81	1.82	0.10	0.44	6.24	0.10	1.66	0.88

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
mg/kg (dry weight basis)												
859.6	4.39	4.13	148.0	731.8	173.0	3.09	94.3	74.3	5.76	2057.3	< .13	< 1

NR-Not Requested One dry ton of this material is equivalent to 1125 gallons of wet material or 4.7 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
otal N	5.01	1.00	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	4.17	2.75	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.12		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	9/16/2011	12:34:19
As	3050B + 6010	Brooks	9/16/2011	12:34:19
Se	3050B + 6010	Brooks	9/16/2011	12:34:19
Hg	7473	Brooks	9/16/2011	6:38:44 AM
PCB	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.113	2.113	2.113	0.222	2.113	2.113	2.113	2.113	2.113
Analyte conc. in sample/ digest (mg/L except Hg)	0.040	0.037	6.59	0.146 ug	0.85	0.67	1.56	0.05	18.53
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.005	0.020	0.015	0.008

Optional Analyses: Results (except soluble salts) on dry weight basis

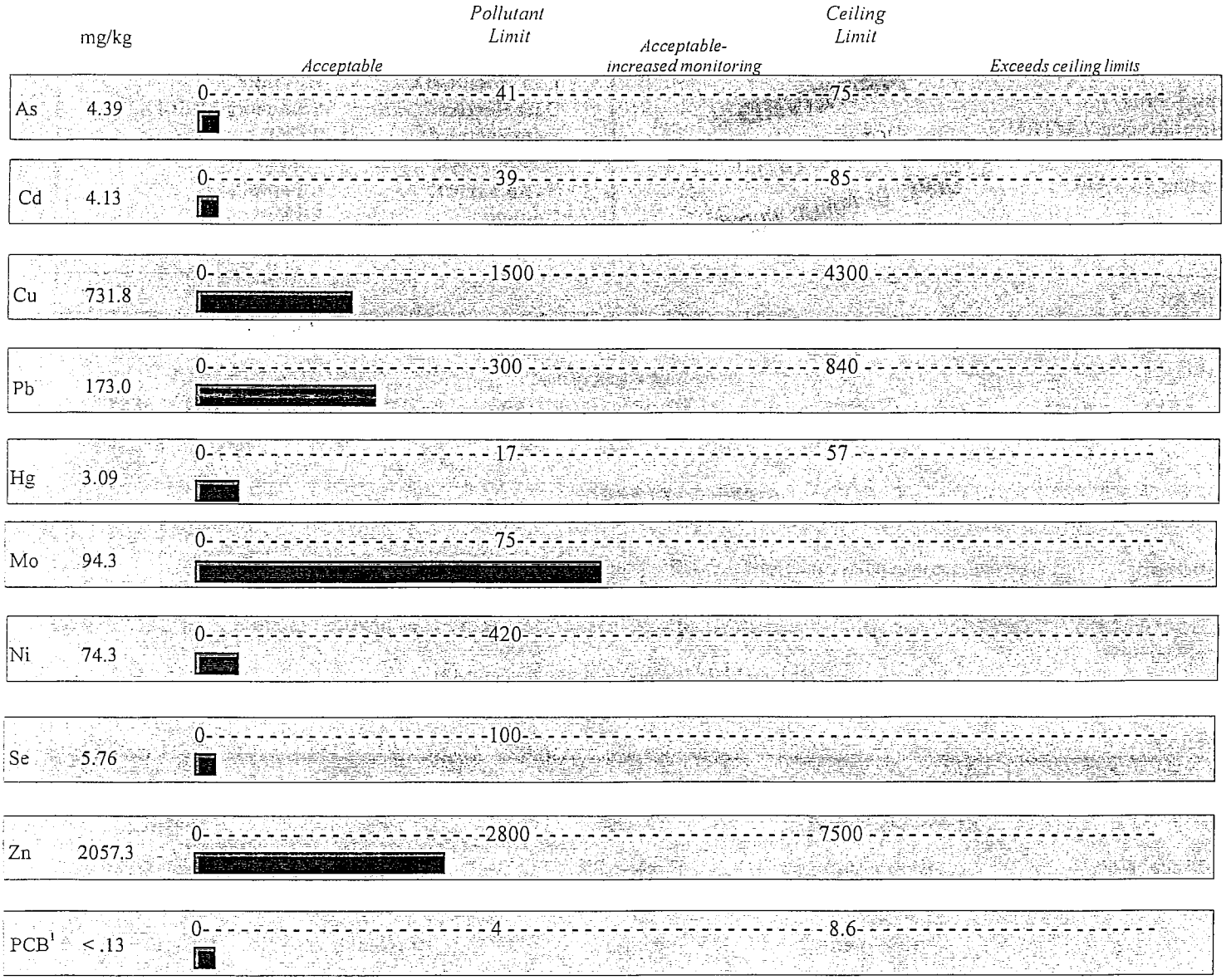
trate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:

Sample Receipt

Ambient Temperature

ID: E14861

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION



[1]DEP limit only

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Agricultural Analytical Services Laboratory
College of Agricultural Sciences
The Pennsylvania State University
University Park, PA 16802

Phone: 814-863-0841
Fax: 814-863-4540
Web: www.aasl.psu.edu

PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Amy Morriss
City of Reading WWTP
815 Washington St
Reading PA 19601

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Lab Sample ID:	**E14906**
Date Received:	October 7, 2011
Date Sampled:	10-4-11
Report Date:	10/27/11
Sample type:	Composite
County:	Berks
Customer Sample ID:	11-8792 Belt press sludge

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
@ 22 C	— % —					% (dry weight basis)						
8.0	20.24	61.85	5.11	4.14	0.97	1.58	0.11	0.37	4.19	0.07	1.51	0.88

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
						mg/kg (dry weight basis)						
630.8	3.82	3.65	110.5	592.6	140.6	2.46	55.1	65.4	4.13	1634.1	< .13	< 1

NR-Not Requested One dry ton of this material is equivalent to 1185 gallons of wet material or 4.9 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
Total N	5.11	0.98	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	3.62	3.16	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.13		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	10/14/2011	12:30:51
As	3050B + 6010	Brooks	10/14/2011	12:30:51
Se	3050B + 6010	Brooks	10/14/2011	12:30:51
Hg	7473	Brooks	10/17/2011	12:00:44 PM
PCB	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

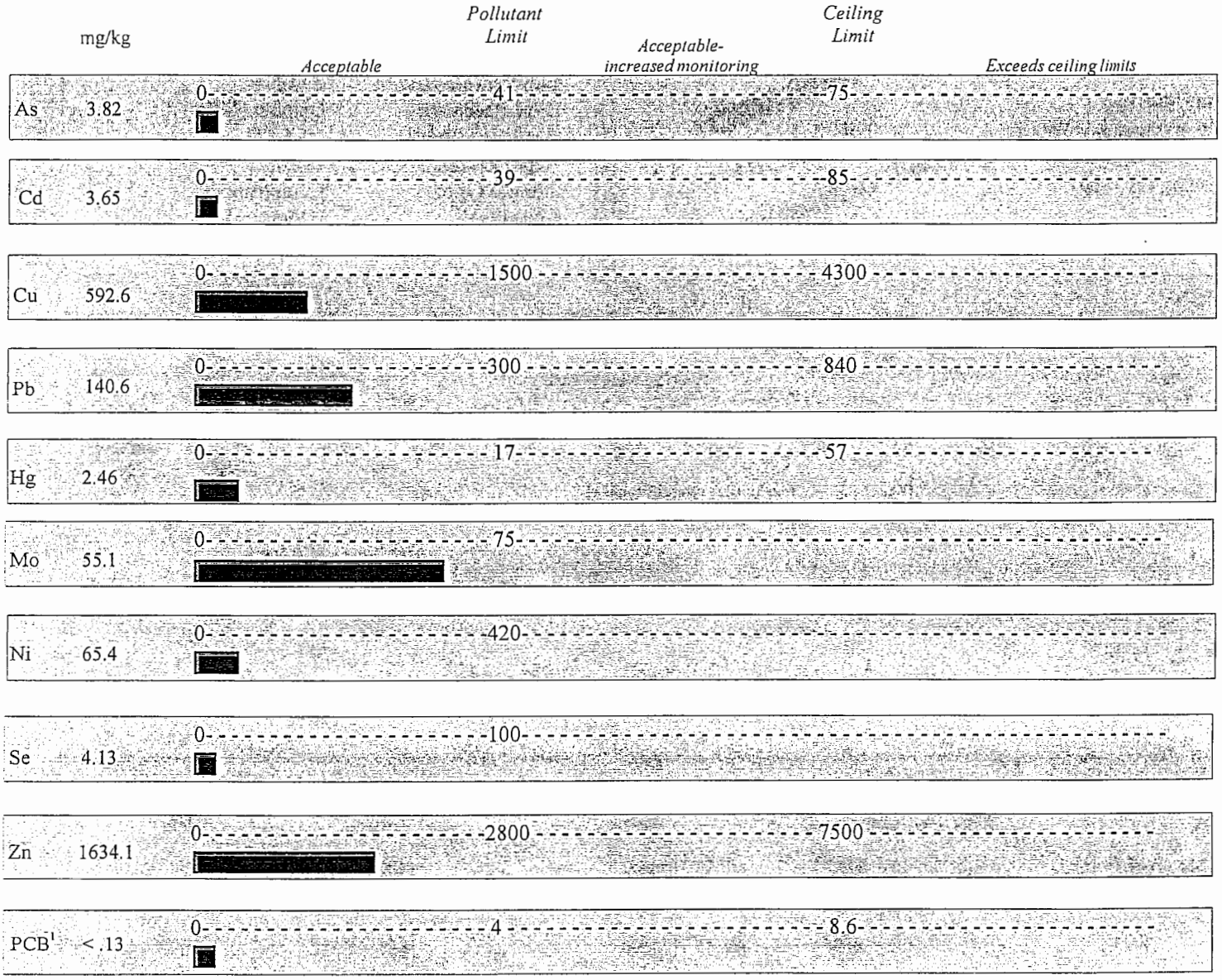
RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	1.820	1.820	1.820	0.346	1.820	1.820	1.820	1.820	1.820
Analyte conc. in sample/ digest (mg/L except Hg)	0.028	0.027	4.37	0.172 ug	0.41	0.48	1.04	0.03	12.04
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.005	0.020	0.015	0.008

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
ate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

ID: E14906.

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION



[1]DEP limit only

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College of Agricultural Sciences
The Pennsylvania State University
University Park, PA 16802

Phone: 814-863-0841
Fax: 814-863-4540
Web: www.aasl.psu.edu

PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Amy Morriss
City of Reading WWTP
815 Washington St
Reading PA 19601

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Lab Sample ID:	**E14984**
Date Received:	November 4, 2011
Date Sampled:	11/1/11
Report Date:	11/17/11
Sample type:	Composite
County:	Berks
Customer Sample ID:	11-9716 Belt press Sludge

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
@ 21.8 C	— % —					% (dry weight basis)						
8.0	17.60	64.92	5.43	4.32	1.12	2.05	0.12	0.44	5.76	0.11	1.53	1.02

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
					mg/kg (dry weight basis)							
907.1	3.66	4.43	129.0	667.4	149.1	2.89	62.8	66.7	6	1775.7	<.15	< 1

NR-Not Requested One dry ton of this material is equivalent to 1363 gallons of wet material or 5.7 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
otal N	5.43	0.92	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	4.70	2.44	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.14		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	11/11/2011	14:04:59
As	3050B + 6010	Brooks	11/11/2011	14:04:59
Se	3050B + 6010	Brooks	11/11/2011	14:04:59
Hg	7473	Brooks	11/11/2011	2:03:33 PM
PCB	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.473	2.473	2.473	0.449	2.473	2.473	2.473	2.473	2.473
Analyte conc. in sample/ digest (mg/L except Hg)	0.032	0.039	5.81	0.228 ug	0.55	0.58	1.30	0.05	15.46
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.005	0.020	0.015	0.008

Optional Analyses: Results (except soluble salts) on dry weight basis

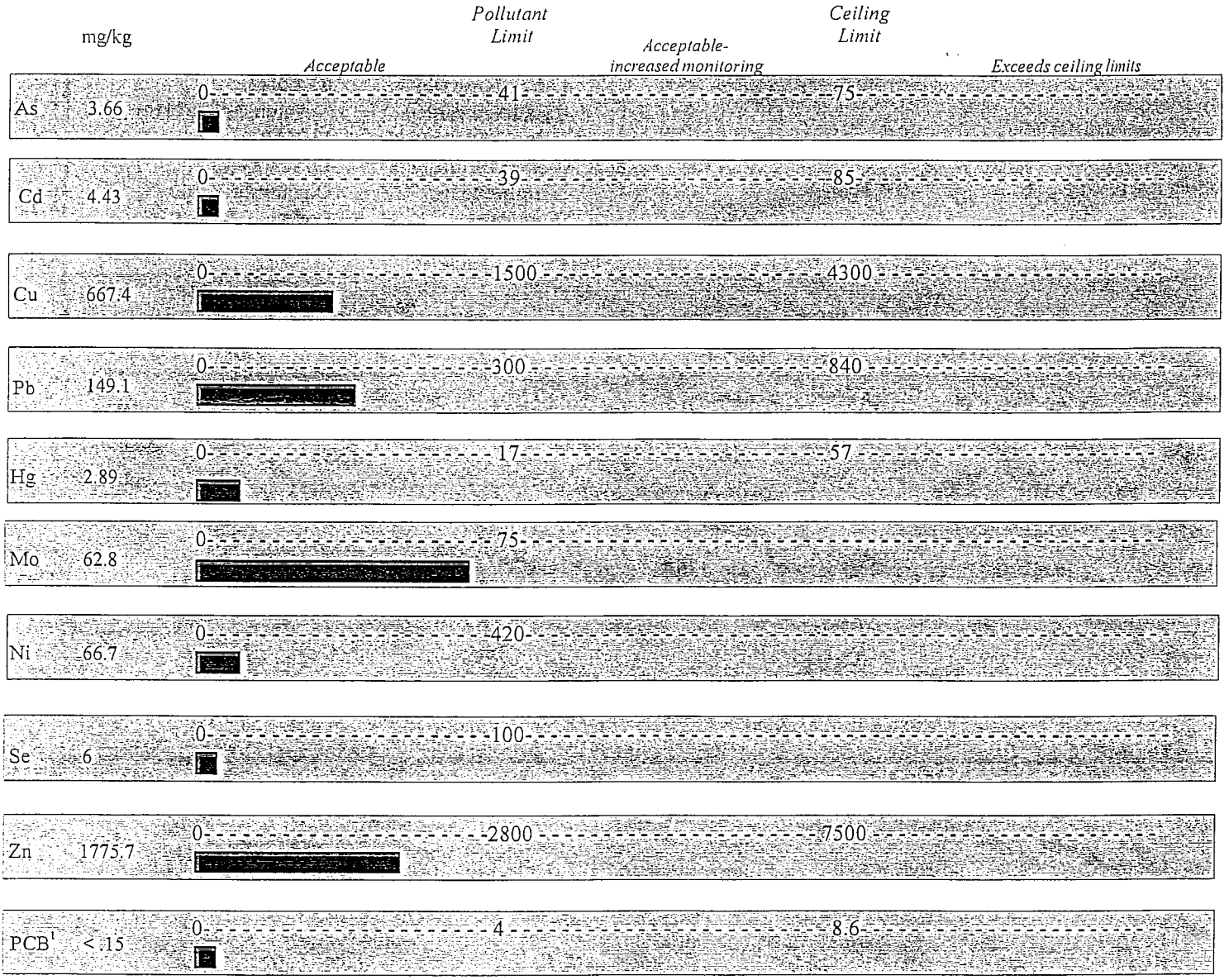
ate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:

Sample Receipt

Ambient Temperature

ID: E14984

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION



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Agricultural Analytical Services Laboratory
College of Agricultural Sciences
The Pennsylvania State University
University Park, PA 16802

Phone: 814-863-0841
Fax: 814-863-4540
Web: www.aasl.psu.edu

PA DEP Lab ID # 14-00588

Analysis Report for Use of Biosolids on Cropland

Amy Morriss
City of Reading WWTP
815 Washington St
Reading PA 19601

Lab Sample ID: E15046
Date Received: December 12, 2011
Date Sampled: 12/6/11
Report Date: 1/3/12
Sample type: Composite
County: Berks
Customer Sample ID: 11-10847 Belt Press Sludge

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH_4N	P	K	Mg	Ca	Na	Fe	Al
@ 21.8 C	— % —					% (dry weight basis)						
7.9	16.13	65.39	5.89	5.14	0.75	2.22	0.12	0.48	7.35	0.09	1.89	1.09

Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB[1]	Reactive CN
					mg/kg (dry weight basis)							
1088.4	3.95	4.77	120.5	691.6	239.5	3.05	59.4	60.0	4.69	1766.0	< .17	< 1

NR-Not Requested One dry ton of this material is equivalent to 1486 gallons of wet material or 6.2 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)		
Total N	5.89	0.85	dry tons of this biosolid will supply 100 lbs of total N.
P_2O_5	5.09	2.25	dry tons of this biosolid will supply 100 lbs of P
K_2O	0.14		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	12/16/2011	10:46:40
As	3050B + 6010	Brooks	12/16/2011	10:46:40
Se	3050B + 6010	Brooks	12/16/2011	10:46:40
Hg	7473	Brooks	12/16/2011	2:35:35 PM
PCB1	8082			

[1]Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.025	2.025	2.025	0.337	2.025	2.025	2.025	2.025	2.025
Analyte conc. in sample/ digest (mg/L except Hg)	0.026	0.031	4.52	0.166 ug	0.39	0.39	1.57	0.03	11.54
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis

Nitrate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:

Sample Receipt

Ambient Temperature

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Form 43
Biosolids

Workorder: 9892866 11-1973

Lab ID: **9892866001** Date Collected: 3/4/2011 08:24 Matrix: Solid

Sample ID: **Biosolids, 11-1973** Date Received: 3/4/2011 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B			3/9/11 20:55	DJB	A
2-Butanone	ND		ug/L	200	SW846 8260B			3/9/11 20:55	DJB	A
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B			3/9/11 20:55	DJB	A
Chlorobenzene	ND		ug/L	20.0	SW846 8260B			3/9/11 20:55	DJB	A
Chloroform	ND		ug/L	20.0	SW846 8260B			3/9/11 20:55	DJB	A
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B			3/9/11 20:55	DJB	A
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B			3/9/11 20:55	DJB	A
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B			3/9/11 20:55	DJB	A
Trichloroethene	ND		ug/L	20.0	SW846 8260B			3/9/11 20:55	DJB	A
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B			3/9/11 20:55	DJB	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	99.5		%	62-133	SW846 8260B			3/9/11 20:55	DJB	A
4-Bromofluorobenzene (S)	97.3		%	79-114	SW846 8260B			3/9/11 20:55	DJB	A
Dibromofluoromethane (S)	92.4		%	78-116	SW846 8260B			3/9/11 20:55	DJB	A
Toluene-d8 (S)	115		%	76-127	SW846 8260B			3/9/11 20:55	DJB	A
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.18	SW846 8082A	3/11/11	CJG	3/14/11 17:40	KJH	A8
Aroclor-1016	ND		mg/kg	0.18	SW846 8082A	3/11/11	CJG	3/14/11 17:40	KJH	A8
Aroclor-1221	ND		mg/kg	0.18	SW846 8082A	3/11/11	CJG	3/14/11 17:40	KJH	A8
Aroclor-1232	ND		mg/kg	0.18	SW846 8082A	3/11/11	CJG	3/14/11 17:40	KJH	A8
Aroclor-1242	ND		mg/kg	0.18	SW846 8082A	3/11/11	CJG	3/14/11 17:40	KJH	A8
Aroclor-1248	ND		mg/kg	0.18	SW846 8082A	3/11/11	CJG	3/14/11 17:40	KJH	A8
Aroclor-1254	ND		mg/kg	0.18	SW846 8082A	3/11/11	CJG	3/14/11 17:40	KJH	A8
Aroclor-1260	ND		mg/kg	0.18	SW846 8082A	3/11/11	CJG	3/14/11 17:40	KJH	A8
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyl (S)	116		%	30-150	SW846 8082A	3/11/11	CJG	3/14/11 17:40	KJH	A8
Tetrachloro-m-xylene (S)	82.8		%	30-150	SW846 8082A	3/11/11	CJG	3/14/11 17:40	KJH	A8
WET CHEMISTRY										
Cyanide, Reactive	ND		ppm	10.1	SW-846 7.3CN	3/14/11	LMM	3/15/11 15:00	MLM	A10
Free Liquids	Negative				SW846 9095			3/7/11 14:00	SDL	A
Hexane Extractable Material	62500		mg/kg	1170	SW846 9071B			3/15/11 08:00	NJA	A
Ignitability	See comment	1			SW846 1030			3/14/11 09:00	SDL	A
Moisture	82.4		%	0.1	SM20-2540 G			3/8/11 14:50	KAK	A
pH	7.73	2	pH_Units		SW846 9045D			3/5/11 04:00	SAD	A
Phenolics	13.2		mg/kg	1.9	SW846 9066	3/15/11	KRK	3/16/11 03:19	KRK	A

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ANALYTICAL RESULTS

Workorder: 9892866 11-1973

Lab ID: **9892866001** Date Collected: 3/4/2011 08:24 Matrix: Solid

Sample ID: **Biosolids, 11-1973** Date Received: 3/4/2011 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Silica Gel Treated HEM	19900		mg/kg	1170	SW846 9071B			3/15/11 08:00	NJA	A
Solids, Total Volatile	68.1		%	1.0	SM20-2540 G			3/8/11 14:50	KAK	A
Sulfide, Reactive	ND		ppm	6.3	SW846 7.3	3/14/11	LMM	3/14/11 14:30	NJA	A11
Total Solids	17.6		%	0.1	SM20-2540 G			3/8/11 14:50	KAK	A
METALS										
Arsenic, Total	ND		mg/kg	10.1	SW846 6010C	3/8/11	KMK	3/11/11 01:55	SRT	A1
Barium, Total	392		mg/kg	5.1	SW846 6010C	3/8/11	KMK	3/11/11 01:55	SRT	A1
Cadmium, Total	4.3		mg/kg	2.5	SW846 6010C	3/8/11	KMK	3/11/11 01:55	SRT	A1
Chromium, Total	118		mg/kg	5.1	SW846 6010C	3/8/11	KMK	3/11/11 01:55	SRT	A1
Copper, Total	590		mg/kg	10.1	SW846 6010C	3/8/11	KMK	3/11/11 01:55	SRT	A1
Lead, Total	113		mg/kg	10.1	SW846 6010C	3/8/11	KMK	3/11/11 01:55	SRT	A1
Mercury, Total	1.7		mg/kg	1.1	SW846 7471B	3/11/11	MNP	3/11/11 12:13	MNP	A6
Molybdenum, Total	48.1		mg/kg	10.1	SW846 6010C	3/8/11	KMK	3/11/11 01:55	SRT	A1
Nickel, Total	61.4		mg/kg	10.1	SW846 6010C	3/8/11	KMK	3/11/11 01:55	SRT	A1
Selenium, Total	ND		mg/kg	25.3	SW846 6010C	3/8/11	KMK	3/11/11 01:55	SRT	A1
Silver, Total	8.2		mg/kg	2.5	SW846 6010C	3/8/11	KMK	3/11/11 01:55	SRT	A1
Zinc, Total	1730		mg/kg	10.1	SW846 6010C	3/8/11	KMK	3/11/11 01:55	SRT	A1
TCLP METALS										
Arsenic, Total	ND		mg/L	0.018	SW846 6010C	3/9/11	KMK	3/14/11 13:17	MWO	A2
Barium, Total	0.092		mg/L	0.022	SW846 6010C	3/9/11	KMK	3/14/11 13:17	MWO	A2
Cadmium, Total	ND		mg/L	0.0044	SW846 6010C	3/9/11	KMK	3/14/11 13:17	MWO	A2
Chromium, Total	0.024		mg/L	0.012	SW846 6010C	3/9/11	KMK	3/14/11 13:17	MWO	A2
Copper, Total	ND		mg/L	0.022	SW846 6010C	3/9/11	KMK	3/14/11 13:17	MWO	A2
Iron, Total	0.32		mg/L	0.13	SW846 6010C	3/9/11	KMK	3/14/11 13:17	MWO	A2
Lead, Total	ND		mg/L	0.013	SW846 6010C	3/9/11	KMK	3/14/11 13:17	MWO	A2
Manganese, Total	21.7		mg/L	0.012	SW846 6010C	3/9/11	KMK	3/14/11 13:17	MWO	A2
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	3/9/11	MNP	3/10/11 10:33	MNP	A3
Nickel, Total	0.053		mg/L	0.044	SW846 6010C	3/9/11	KMK	3/14/11 13:17	MWO	A2
Selenium, Total	ND		mg/L	0.044	SW846 6010C	3/9/11	KMK	3/14/11 13:17	MWO	A2
Silver, Total	ND		mg/L	0.0088	SW846 6010C	3/9/11	KMK	3/14/11 13:17	MWO	A2

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9892866 11-1973

Lab ID: **9892866001** Date Collected: 3/4/2011 08:24 Matrix: Solid

Sample ID: **Biosolids, 11-1973** Date Received: 3/4/2011 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Zinc, Total	0.50		mg/L	0.044	SW846 6010C	3/9/11	KMK	3/14/11 13:17	MWO	A2
TCLP SEMI-VOLATILES										
mp-Cresol	ND		ug/L	160	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
o-Cresol	ND		ug/L	160	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
Pentachlorophenol	ND		ug/L	320	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
Pyridine	ND		ug/L	160	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	78.1		%	40-125	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
2-Fluorobiphenyl (S)	55.9		%	50-110	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
2-Fluorophenol (S)	35.6		%	20-75	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
Nitrobenzene-d5 (S)	56.6		%	40-110	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
Phenol-d5 (S)	23.5		%	13-49	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
Terphenyl-d14 (S)	71		%	50-122	SW846 8270D	3/11/11	GEC	3/12/11 01:54	CGS	A9
TCLP PESTICIDES										
gamma-BHC	ND		ug/L	0.50	SW846 8081B	3/10/11	GMG	3/11/11 23:44	KJH	A7
Chlordane	ND		ug/L	10.0	SW846 8081B	3/10/11	GMG	3/11/11 23:44	KJH	A7
Endrin	ND		ug/L	0.50	SW846 8081B	3/10/11	GMG	3/11/11 23:44	KJH	A7
Heptachlor	ND		ug/L	0.50	SW846 8081B	3/10/11	GMG	3/11/11 23:44	KJH	A7
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	3/10/11	GMG	3/11/11 23:44	KJH	A7
Methoxychlor	ND		ug/L	0.50	SW846 8081B	3/10/11	GMG	3/11/11 23:44	KJH	A7
Toxaphene	ND		ug/L	20.0	SW846 8081B	3/10/11	GMG	3/11/11 23:44	KJH	A7
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyl (S)	95.2		%	30-140	SW846 8081B	3/10/11	GMG	3/11/11 23:44	KJH	A7
Tetrachloro-m-xylene (S)	96.2		%	30-123	SW846 8081B	3/10/11	GMG	3/11/11 23:44	KJH	A7
TCLP HERBICIDES										
2,4-D	ND		ug/L	4.0	SW846 8151A	3/10/11	GEC	3/13/11 22:17	KJH	A4
2,4,5-TP	ND		ug/L	4.0	SW846 8151A	3/10/11	GEC	3/13/11 22:17	KJH	A4

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 9892866 11-1973

Lab ID: **9892866001** Date Collected: 3/4/2011 08:24 Matrix: Solid

Sample ID: **Biosolids, 11-1973** Date Received: 3/4/2011 20:25

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4-Dichlorophenylacetic acid (S)	86.3		%	14-172	SW846 8151A	3/10/11	GEC	3/13/11 22:17	KJH	A4
ASTM LEACHATE PREP										
Final pH	8.51		pH_Units		D3987-85			3/8/11 06:15	SDL	A
ASTM LEACHATE										
Ammonia-N	70.8		mg/L	0.250	D6919-03			3/15/11 03:31	NJA	A
Chemical Oxygen Demand (COD)	304		mg/L	15	EPA 410.4			3/18/11 08:50	LMM	A
Chloride	8.9		mg/L	2.0	SW846 9056			3/10/11 05:53	MBW	A
Cyanide, Total	ND		ppm	0.0050	SW846 9012B			3/15/11 11:34	MLM	A5
Fluoride	0.26		mg/L	0.20	SW846 9056			3/10/11 05:53	MBW	A
Halogen, Total Organic (TOX)	ND		ug/L	100	SW846 9020B			3/21/11 08:00	PAG	A
Nitrate-N	ND		mg/L	0.20	SW846 9056			3/10/11 05:53	MBW	A
Nitrite-N	ND		mg/L	0.20	SW846 9056			3/10/11 05:53	MBW	A
Oil/Grease Hexane Extractable	6.0		mg/L	4.3	EPA 1664A			3/16/11 11:00	NJA	A
Oil/Grease Silica Gel Treated	ND		mg/L	4.3	EPA 1664A			3/16/11 11:00	NJA	A
pH in Leachate	7.61		pH_Units		SM4500B			3/10/11 06:13	SAD	A
Sulfate	106		mg/L	2.0	SW846 9056			3/10/11 05:53	MBW	A
Total Solids	350		mg/L	5	SM20-2540			3/10/11 11:05	KAK	A
TCLP LEACHATE										
Extraction Fluid Used	1				SW846 1311			3/7/11 13:00	SDL	A
Final pH	5.30		pH_Units		SW846 1311			3/7/11 13:00	SDL	A
Preliminary pH after DI water	8.48		pH_Units		SW846 1311			3/7/11 13:00	SDL	A
Preliminary pH after HCl	2.49		pH_Units		SW846 1311			3/7/11 13:00	SDL	A

Sample Comments:

CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.

Form 43 Biosolids

Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 04/17/12
Lab ID: 0124-11-0029995

Date Collected: 08/02/11 08:15
Collected By: Client

Date Received: 08/03/11 15:05

Sample Description: Belt Press Sludge 11-6825 (Form 43/Form U) Total Analysis

* Results Expressed as Dry Weight	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
CHEMISTRY							
COLORMETRIC							
Cyanide, Reactive	<120	* mg/kg	120	SW846 7.3	08/08	15:59	jcl
OTHER							
Paint Filter Liquids Test	NoFreeLiquids		0	SW846 9095	08/22	10:25	ald
PHYSICAL							
Corrosivity	Not Corrosive		0	SW846 7.2	08/11	16:00	ald
Ignitability	Not Ignitable		0	SW846 1030	08/22	10:20	ald
pH	8.33	su	1	SW846 9045	08/05	12:00	EMW
Reactivity	Not Reactive		0	SW846 7.3	08/22	10:00	ald
RESIDUES							
Solids, Total Volatile	68.5	%	.1	SM 2540G	08/04	16:30	eps
Total Solids	20.3	%	.1	SM 2540G	08/04	16:30	eps
TITRATIONS							
Sulfide, Reactive	<250	* mg/kg	250	SW846 7.3	08/11	14:05	WHC
INORGANIC							
TOTAL							
Arsenic, Total	3	* mg/kg	0.5	EPA 200.9	08/10	18:26	rls
Barium, Total	436	* mg/kg	2.46	SW846 6010	08/05	11:32	lna
Cadmium, Total	4	* mg/kg	2	SW846 6010	08/05	11:32	lna
Chromium, Total	136	* mg/kg	2.46	SW846 6010	08/05	11:32	lna
Copper, Total	749	* mg/kg	4.93	SW846 6010	08/05	11:32	lna
Lead, Total	190	* mg/kg	4.9	SW846 6010	08/05	11:32	lna
Mercury, Total	2	* mg/kg	1	SW846 7471	08/10	11:14	jaw
Molybdenum, Total	79	* mg/kg	4.9	SW846 6010	08/05	11:32	lna
Nickel, Total	65.0	* mg/kg	2.46	SW846 6010	08/05	11:32	lna
Selenium, Total	5.9	* mg/kg	0.98	EPA 200.9	08/08	13:44	rls
Silver, Total	11	* mg/kg	2.5	SW846 6010	08/09	09:49	lna
Zinc, Total	1810	* mg/kg	2.46	SW846 6010	08/05	11:32	lna

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:

Richard Wolfe
Technical Director

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M.J. Reider Associates, Inc.

Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 04/17/12
Lab ID: 0124-11-0029995

Date Collected: 08/02/11 08:15
Collected By: Client

Date Received: 08/03/11 15:05

Sample Description: Belt Press Sludge 11-6825 (Form 43/Form U) Total Analysis

* Results Expressed as Dry Weight	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
O&G/TPH							
GENERAL							
Oil and Grease	70900	* mg/kg	1230	EPA 1664	08/04	08:00	jls
Total Petroleum Hydrocarbons	23100	* mg/kg	1230	EPA 1664	08/05	08:00	JLS
ORGANIC							
EXTRACTION							
SW846 8082 Extraction	Complete		0	SW846 8082	08/10	06:30	kle
PCBS							
PCB-1016	<0.985	* mg/kg	0.985	SW846 8082	08/13	04:32	twh
PCB-1221	<0.985	* mg/kg	0.985	SW846 8082	08/13	04:32	twh
PCB-1232	<0.985	* mg/kg	0.985	SW846 8082	08/13	04:32	twh
PCB-1242	<0.985	* mg/kg	0.985	SW846 8082	08/13	04:32	twh
PCB-1248	<0.985	* mg/kg	0.985	SW846 8082	08/13	04:32	twh
PCB-1254	<0.985	* mg/kg	0.985	SW846 8082	08/13	04:32	twh
PCB-1260	<0.985	* mg/kg	0.985	SW846 8082	08/13	04:32	twh

COMMENTS:

1 - The laboratory pH was analyzed beyond the recommended 15 minute holding time.

2 - This solid waste is not capable of causing fire through friction, absorption of moisture or spontaneous chemical change & doesn't burn vigorously or persistently creating a hazard.

3 - This report has been amended to report the individual Arochlors.

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:

Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/23/11
Project Number: 1157858
Lab ID: 124-11-0029996
Date Collected: 08/02/11 08:15
Collected By: CLIENT
Date Received: 08/03/11 15:05

Sample Desc: Belt Press Sludge 11-6825 (Form 43/Form U) TCLP Leachate Analysis

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
LEACHATE								
pH, Extract Fluid	4.97	su	.01	1	SW846 9040	08/05	07:30	JAW
pH, Leachate	5.54	su	.01	1	SW846 9040	08/05	07:30	JAW
INORGANIC								
EXTRACTION								
TCLP Preparation	Complete		0	0	EPA 1311	08/05	07:30	JAW
TCLP								
Arsenic, TCLP	<.05	mg/l	.05	1	SW846 6010	08/05	11:32	LNA
Barium, TCLP	<.05	mg/l	.05	1	SW846 6010	08/05	11:32	LNA
Cadmium, TCLP	<.05	mg/l	.05	1	SW846 6010	08/05	11:32	LNA
Chromium, TCLP	<.05	mg/l	.05	1	SW846 6010	08/05	11:32	LNA
Copper, TCLP	<.05	mg/l	.05	1	SW846 6010	08/05	11:32	LNA
Iron, TCLP	0.2	mg/l	.2	1	SW846 6010	08/09	12:30	LNA
Lead, TCLP	<.15	mg/l	.15	1	SW846 6010	08/05	11:32	LNA
Mercury, TCLP	<.004	mg/l	.004	1	SW846 7470	08/10	11:14	JAW
Molybdenum, TCLP	<.1	mg/l	.1	1	SW846 6010	08/05	11:32	LNA
Nickel, TCLP	0.06	mg/l	.05	1	SW846 6010	08/05	11:32	LNA
Selenium, TCLP	<.05	mg/l	.05	1	SW846 6010	08/05	11:32	LNA
Silver, TCLP	<.05	mg/l	.05	1	SW846 6010	08/09	09:49	LNA
Zinc, TCLP	0.52	mg/l	.05	1	SW846 6010	08/05	11:32	LNA
ORGANIC								
ACID COMPOUNDS								
2,4,5-Trichlorophenol, TCLP	<50	ug/l	50	1	SW846 8270	08/10	08:00	MEB
2,4,6-Trichlorophenol, TCLP	<50	ug/l	50	1	SW846 8270	08/10	08:00	MEB
Cresols, TCLP	<50	ug/l	50	1	SW846 8270	08/10	08:00	MEB
Pentachlorophenol, TCLP	<250	ug/l	250	1	SW846 8270	08/10	08:00	MEB
BASE NEUTRALS								
2,4-Dinitrotoluene, TCLP	<50	ug/l	50	1	SW846 8270	08/10	08:00	MEB
Hexachlorobenzene, TCLP	<50	ug/l	50	1	SW846 8270	08/10	08:00	MEB

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Reviewed and Approved by:

Richard Wolfe
Technical Director

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Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/23/11
Project Number: 1157858
Lab ID: 124-11-0029996
Date Collected: 08/02/11 08:15
Collected By: CLIENT
Date Received: 08/03/11 15:05

Sample Desc: Belt Press Sludge 11-6825 (Form 43/Form U) TCLP Leachate Analysis

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Hexachlorobutadiene, TCLP	<50	ug/l	50	1	SW846 8270	08/10	08:00	MEB
Hexachloroethane, TCLP	<50	ug/l	50	1	SW846 8270	08/10	08:00	MEB
Nitrobenzene, TCLP	<50	ug/l	50	1	SW846 8270	08/10	08:00	MEB
Pyridine, TCLP	<50	ug/l	50	1	SW846 8270	08/10	08:00	MEB
EXTRACTION								
SM 6640B Extraction	Complete		0	0	SM 6640B	08/05	08:00	JLV
SW846 8081 Extraction	Complete		0	0	SW846 8081	08/11	09:00	KLE
SW846 8270 Extraction	Complete		0	0	SW846 8270	08/09	07:00	MEB
HERBICIDES								
2,4,5-TP Silvex, TCLP	<5	ug/l	5	1	SM 6640B	08/11	10:17	TWH
2,4-D, TCLP	<5	ug/l	5	1	SM 6640B	08/11	10:17	TWH
PESTICIDES								
Chlordane, TCLP	<5	ug/l	5	1	SW846 8081	08/13	02:55	TWH
Endrin, TCLP	<5	ug/l	5	1	SW846 8081	08/13	02:55	TWH
Heptachlor (and hydroxide), TCLP	<5	ug/l	5	1	SW846 8081	08/13	02:55	TWH
Heptachlor Epoxide, TCLP	<5	ug/l	5	1	SW846 8081	08/13	02:55	TWH
Lindane, TCLP	<5	ug/l	5	1	SW846 8081	08/13	02:55	TWH
Methoxychlor, TCLP	<5	ug/l	5	1	SW846 8081	08/13	02:55	TWH
Toxaphene, TCLP	<5	ug/l	5	1	SW846 8081	08/13	02:55	TWH
VOLATILES								
1,1-Dichloroethylene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	08/05	14:21	GXF
1,2-Dichlorobenzene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	08/05	14:21	GXF
1,2-Dichloroethane, ZHE TCLP	<50	ug/l	50	1	SW846 8260	08/05	14:21	GXF
1,4-Dichlorobenzene, TCLP	<50	ug/l	50	1	SW846 8260	08/05	14:21	GXF
Benzene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	08/05	14:21	GXF
Carbon Tetrachloride, ZHE TCLP	<50	ug/l	50	1	SW846 8260	08/05	14:21	GXF
Chlorobenzene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	08/05	14:21	GXF
Chloroform, ZHE TCLP	<50	ug/l	50	1	SW846 8260	08/05	14:21	GXF
Methyl Ethyl Ketone, ZHE TCLP	<200	ug/l	200	1	SW846 8260	08/05	14:21	GXF
Tetrachloroethylene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	08/05	14:21	GXF

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.

AUG 24 2011

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 08/23/11
Project Number: 1157858
Lab ID: 124-11-0029997
Date Collected: 08/02/11 08:15
Collected By: CLIENT
Date Received: 08/03/11 15:05

Sample Desc: Belt Press Sludge 11-6825 (Form 43/Form U) ASTM Leachate Analysis

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
NITROGENS								
Nitrogen, Ammonia	78	mg/l	5	50	D6919-03	08/08	19:39	JCL
OTHER								
Chemical Oxygen Demand	319	mg/l	25	1	HACH8000	08/09	07:00	ALD
Total Organic Halogens	50	ug/l	50	1	EPA 1650	08/05	13:51	ALD
PHYSICAL								
pH	7.85	su	1	1	SM4500H-B	08/05	15:30	EMW
RESIDUES								
Solids, Total Dissolved	317	mg/l	5	1	SM 2540C	08/05	15:15	EPS
Solids, Total Volatile	254	mg/l	5	1	EPA 160.4	08/09	15:50	EPS
INORGANIC								
EXTRACTION								
ASTM Preparation	Complete		0	0	ASTM	08/05	07:30	JAW
O&G/TPH								
GENERAL								
Oil and Grease	12	mg/l	10	1	EPA 1664	08/10	11:00	JLS
Total Petroleum Hydrocarbons	<10	mg/l	10	1	EPA 1664	08/12	14:00	JLS

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

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Additional Testing for bis(2-Ethylhexyl)phthalate or semivolatiles on Plant Influent, Effluent and Biosolids

2011 Influent Testing for TKN, Total Phosphorus, o-phosphate

DEP letter and NPDES amendment for mercury limit

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ANALYTICAL RESULTS

Workorder 9884044 11-152,164,165,167

Lab ID: 9884044001 Date Collected: 1/4/2011 09:07 Matrix: Waste Water

Sample ID: Raw 11-152 Date Received: 1/5/2011 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
bis(2-Ethylhexyl)phthalate	23.8		ug/L	2.8	EPA 625	1/7/11	GEC	1/12/11 11:06	AJL	B1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	84		%	38-134	EPA 625	1/7/11	GEC	1/12/11 11:06	AJL	B1
2-Fluorobiphenyl (S)	75		%	37-113	EPA 625	1/7/11	GEC	1/12/11 11:06	AJL	B1
2-Fluorophenol (S)	43.7		%	17-73	EPA 625	1/7/11	GEC	1/12/11 11:06	AJL	B1
Nitrobenzene-d5 (S)	79.5		%	37-124	EPA 625	1/7/11	GEC	1/12/11 11:06	AJL	B1
Phenol-d5 (S)	30.9		%	11-53	EPA 625	1/7/11	GEC	1/12/11 11:06	AJL	B1
Terphenyl-d14 (S)	20	1	%	33-125	EPA 625	1/7/11	GEC	1/12/11 11:06	AJL	B1
METALS										
Mercury, Total (XLow-level)	0.0002		mg/L	0.00007	EPA 245.1	1/10/11	MNP	1/10/11 11:15	MNP	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9884044 11-152,164,165,167

Lab ID: **9884044002** Date Collected: 1/4/2011 09:33 Matrix: Waste Water

Sample ID: **Final 11-164** Date Received: 1/5/2011 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
bis(2-Ethylhexyl)phthalate	5.7		ug/L	2.9	EPA 625	1/7/11	GEC	1/12/11 11:54	AJL	B1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	81.7		%	38-134	EPA 625	1/7/11	GEC	1/12/11 11:54	AJL	B1
2-Fluorobiphenyl (S)	61		%	37-113	EPA 625	1/7/11	GEC	1/12/11 11:54	AJL	B1
2-Fluorophenol (S)	45.8		%	17-73	EPA 625	1/7/11	GEC	1/12/11 11:54	AJL	B1
Nitrobenzene-d5 (S)	82.3		%	37-124	EPA 625	1/7/11	GEC	1/12/11 11:54	AJL	B1
Phenol-d5 (S)	30.5		%	11-53	EPA 625	1/7/11	GEC	1/12/11 11:54	AJL	B1
Terphenyl-d14 (S)	63.4		%	33-125	EPA 625	1/7/11	GEC	1/12/11 11:54	AJL	B1
METALS										
Mercury, Total (XLow-level)	ND		mg/L	0.00007	EPA 245.1	1/10/11	MNP	1/10/11 11:17	MNP	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9884043 11-148

Lab ID: 9884043001 Date Collected: 1/4/2011 09:00 Matrix: Solid
Sample ID: Belt Press Biosolids 11-148 Date Received: 1/5/2011 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	548	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Acenaphthylene	ND		ug/kg	548	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Anthracene	ND		ug/kg	548	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Benzidine	ND		ug/kg	11000	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Benzo(a)anthracene	ND		ug/kg	548	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Benzo(a)pyrene	ND		ug/kg	548	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Benzo(b)fluoranthene	ND		ug/kg	548	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Benzo(g,h,i)perylene	ND		ug/kg	548	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Benzo(k)fluoranthene	ND		ug/kg	548	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
4-Bromophenyl-phenylether	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Butylbenzylphthalate	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
4-Chloro-3-methylphenol	ND		ug/kg	2960	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
bis(2-Chloroethoxy)methane	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
bis(2-Chloroethyl)ether	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
bis(2-Chloroisopropyl)ether	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Chloronaphthalene	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Chlorophenol	ND		ug/kg	2960	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
4-Chlorophenyl-phenylether	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Chrysene	ND		ug/kg	548	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Di-n-Butylphthalate	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Di-n-Octylphthalate	ND		ug/kg	2960	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Dibenzo(a,h)anthracene	ND		ug/kg	657	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
1,2-Dichlorobenzene	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
1,3-Dichlorobenzene	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
1,4-Dichlorobenzene	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
3,3-Dichlorobenzidine	ND		ug/kg	5910	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
2,4-Dichlorophenol	ND		ug/kg	2960	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Diethylphthalate	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
2,4-Dimethylphenol	ND		ug/kg	2960	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Dimethylphthalate	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
2,4-Dinitrophenol	ND		ug/kg	5910	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
2,4-Dinitrotoluene	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
2,6-Dinitrotoluene	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
1,2-Diphenylhydrazine	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
bis(2-Ethylhexyl)phthalate	37500		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Fluoranthene	596		ug/kg	548	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Fluorene	ND		ug/kg	548	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Hexachlorobenzene	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Hexachlorobutadiene	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Hexachlorocyclopentadiene	ND		ug/kg	2960	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Hexachloroethane	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	548	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Isophorone	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
2-Methyl-4,6-dinitrophenol	ND		ug/kg	2960	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Naphthalene	1220		ug/kg	548	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Nitrobenzene	ND		ug/kg	1310	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1

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ANALYTICAL RESULTS

Workorder 9884043 11-148

Lab ID: 9884043001 Date Collected: 1/4/2011 09:00 Matrix: Solid
Sample ID: Belt Press Biosolids 11-148 Date Received: 1/5/2011 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
2-Nitrophenol	ND		ug/kg	2960	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
4-Nitrophenol	ND		ug/kg	2960	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
N-Nitrosodimethylamine	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
N-Nitroso-di-n-propylamine	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
N-Nitrosodiphenylamine	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Pentachlorophenol	ND		ug/kg	5910	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Phenanthrene	1670		ug/kg	548	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Phenol	2960		ug/kg	2960	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Pyrene	656		ug/kg	548	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
1,2,4-Trichlorobenzene	ND		ug/kg	1100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
2,4,6-Trichlorophenol	ND		ug/kg	2960	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	92.2		%	37-123	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
2-Fluorobiphenyl (S)	86.3		%	45-105	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
2-Fluorophenol (S)	82		%	35-104	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
Nitrobenzene-d5 (S)	82.1		%	41-110	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
nol-d5 (S)	84.6		%	40-100	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
erphenyl-d14 (S)	89.1		%	38-113	SW846 8270D	1/7/11	EGO	1/8/11 04:03	CGS	A1
WET CHEMISTRY										
Moisture	81.7		%	0.1	SM20-2540 G			1/7/11 10:21	AM	A
Total Solids	18.3		%	0.1	SM20-2540 G			1/7/11 10:21	AM	A

Sample Comments:

One or more of the GCMS semi-volatile internal standards were recovered at <50%.

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

FEB 04 2011

Workorder 9886043 11-607/11-594

Lab ID: 9886043002 Date Collected: 1/18/2011 09:11 Matrix: Waste Water

Sample ID: Raw 11-594 Date Received: 1/19/2011 17:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
bis(2-Ethylhexyl)phthalate	26.9		ug/L	2.8	EPA 625	1/24/11	GEC	1/27/11 17:16	CGS	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	103		%	38-134	EPA 625	1/24/11	GEC	1/27/11 17:16	CGS	A1
2-Fluorobiphenyl (S)	85.6		%	37-113	EPA 625	1/24/11	GEC	1/27/11 17:16	CGS	A1
2-Fluorophenol (S)	38.6		%	17-73	EPA 625	1/24/11	GEC	1/27/11 17:16	CGS	A1
Nitrobenzene-d5 (S)	78.4		%	37-124	EPA 625	1/24/11	GEC	1/27/11 17:16	CGS	A1
Phenol-d5 (S)	29.8		%	11-53	EPA 625	1/24/11	GEC	1/27/11 17:16	CGS	A1
Terphenyl-d14 (S)	144	1	%	33-125	EPA 625	1/24/11	GEC	1/27/11 17:16	CGS	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

FEB 04 2011

Workorder 9886043 11-607/11-594

Lab ID: 9886043001 Date Collected: 1/18/2011 10:03 Matrix: Waste Water

Sample ID: Final 11-607 Date Received: 1/19/2011 17:50

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
bis(2-Ethylhexyl)phthalate	6.5		ug/L	2.9	EPA 625	1/24/11	GEC	1/27/11 10:49	CGS	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	102		%	38-134	EPA 625	1/24/11	GEC	1/27/11 10:49	CGS	A1
2-Fluorobiphenyl (S)	83.9		%	37-113	EPA 625	1/24/11	GEC	1/27/11 10:49	CGS	A1
2-Fluorophenol (S)	49.1		%	17-73	EPA 625	1/24/11	GEC	1/27/11 10:49	CGS	A1
Nitrobenzene-d5 (S)	82.1		%	37-124	EPA 625	1/24/11	GEC	1/27/11 10:49	CGS	A1
Phenol-d5 (S)	33		%	11-53	EPA 625	1/24/11	GEC	1/27/11 10:49	CGS	A1
Terphenyl-d14 (S)	84.4		%	33-125	EPA 625	1/24/11	GEC	1/27/11 10:49	CGS	A1

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

FEB 15 2011

Workorder 9887678 11-1037/1040/1043/1041

Lab ID: 9887678001 Date Collected: 2/1/2011 10:12 Matrix: Waste Water

Sample ID: Raw 11-1037 Date Received: 2/2/2011 17:35

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
bis(2-Ethylhexyl)phthalate	22.0		ug/L	2.8	EPA 625	2/8/11	MPP	2/9/11 17:23	DHF	B1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	76.2		%	38-134	EPA 625	2/8/11	MPP	2/9/11 17:23	DHF	B1
2-Fluorobiphenyl (S)	79		%	37-113	EPA 625	2/8/11	MPP	2/9/11 17:23	DHF	B1
2-Fluorophenol (S)	42.4		%	17-73	EPA 625	2/8/11	MPP	2/9/11 17:23	DHF	B1
Nitrobenzene-d5 (S)	95.5		%	37-124	EPA 625	2/8/11	MPP	2/9/11 17:23	DHF	B1
Phenol-d5 (S)	31		%	11-53	EPA 625	2/8/11	MPP	2/9/11 17:23	DHF	B1
Terphenyl-d14 (S)	319	1	%	33-125	EPA 625	2/8/11	MPP	2/9/11 17:23	DHF	B1
METALS										
Mercury, Total (XLow-level)	0.0002		mg/L	0.00007	EPA 245.1	2/10/11	MNP	2/10/11 11:36	MNP	A1

Sample Comments:

One or more of the GCMS semi-volatile internal standards were recovered at <50%. The sample was reanalyzed with similar results indicating a sample matrix interference.

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9887678 11-1037/1040/1043/1041

Lab ID: 9887678002 Date Collected: 2/1/2011 10:17 Matrix: Waste Water

Sample ID: Final 11-1040 Date Received: 2/2/2011 17:35

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
bis(2-Ethylhexyl)phthalate	3.8		ug/L	2.8	EPA 625	2/8/11	MPP	2/9/11 16:33	DHF	B1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	68.5		%	38-134	EPA 625	2/8/11	MPP	2/9/11 16:33	DHF	B1
2-Fluorobiphenyl (S)	73.9		%	37-113	EPA 625	2/8/11	MPP	2/9/11 16:33	DHF	B1
2-Fluorophenol (S)	45.3		%	17-73	EPA 625	2/8/11	MPP	2/9/11 16:33	DHF	B1
Nitrobenzene-d5 (S)	79.1		%	37-124	EPA 625	2/8/11	MPP	2/9/11 16:33	DHF	B1
Phenol-d5 (S)	29.5		%	11-53	EPA 625	2/8/11	MPP	2/9/11 16:33	DHF	B1
Terphenyl-d14 (S)	83.2		%	33-125	EPA 625	2/8/11	MPP	2/9/11 16:33	DHF	B1
METALS										
Mercury, Total (XLow-level)	ND		mg/L	0.00007	EPA 245.1	2/10/11	MNP	2/10/11 11:38	MNP	A1

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

FEB 15 2011

Workorder 9887682 11-1022

Lab ID: 9887682001
Sample ID: Belt Press Sludge 11-1022
Date Collected: 2/2/2011 08:22
Date Received: 2/2/2011 17:35
Matrix: Solid

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	1100	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Acenaphthylene	ND		ug/kg	1100	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Anthracene	ND		ug/kg	1100	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Benzidine	ND		ug/kg	22100	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Benzo(a)anthracene	ND		ug/kg	1100	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Benzo(a)pyrene	ND		ug/kg	1100	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Benzo(b)fluoranthene	ND		ug/kg	1100	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Benzo(g,h,i)perylene	ND		ug/kg	1100	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Benzo(k)fluoranthene	ND		ug/kg	1100	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
4-Bromophenyl-phenylether	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Butylbenzylphthalate	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
4-Chloro-3-methylphenol	ND		ug/kg	5960	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
bis(2-Chloroethoxy)methane	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
bis(2-Chloroethyl)ether	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
bis(2-Chloroisopropyl)ether	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Chloronaphthalene	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
2-Chlorophenol	ND		ug/kg	5960	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
4-Chlorophenyl-phenylether	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Chrysene	ND		ug/kg	1100	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Di-n-Butylphthalate	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Di-n-Octylphthalate	ND		ug/kg	5960	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Dibenzo(a,h)anthracene	ND		ug/kg	1330	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
1,2-Dichlorobenzene	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
1,3-Dichlorobenzene	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
1,4-Dichlorobenzene	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
3,3-Dichlorobenzidine	ND		ug/kg	11900	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
2,4-Dichlorophenol	ND		ug/kg	5960	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Diethylphthalate	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
2,4-Dimethylphenol	ND		ug/kg	5960	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Dimethylphthalate	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
2,4-Dinitrophenol	ND		ug/kg	11900	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
2,4-Dinitrotoluene	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
2,6-Dinitrotoluene	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
1,2-Diphenylhydrazine	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
bis(2-Ethylhexyl)phthalate	33300		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Fluoranthene	ND		ug/kg	1100	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Fluorene	ND		ug/kg	1100	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Hexachlorobenzene	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Hexachlorobutadiene	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Hexachlorocyclopentadiene	ND		ug/kg	5960	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Hexachloroethane	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	1100	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Isophorone	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Methyl-4,6-dinitrophenol	ND		ug/kg	5960	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Naphthalene	1280		ug/kg	1100	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Nitrobenzene	ND		ug/kg	2650	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1

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ANALYTICAL RESULTS

FEB 15 2011

Workorder 9887682 11-1022

Lab ID: 9887682001 Date Collected: 2/2/2011 08:22 Matrix: Solid

Sample ID: Belt Press Sludge 11-1022 Date Received: 2/2/2011 17:35

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
2-Nitrophenol	ND		ug/kg	5960	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
4-Nitrophenol	ND		ug/kg	5960	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
N-Nitrosodimethylamine	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
N-Nitroso-di-n-propylamine	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
N-Nitrosodiphenylamine	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Pentachlorophenol	ND		ug/kg	11900	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Phenanthrene	1260		ug/kg	1100	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Phenol	ND		ug/kg	5960	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Pyrene	ND		ug/kg	1100	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
1,2,4-Trichlorobenzene	ND		ug/kg	2210	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
2,4,6-Trichlorophenol	ND		ug/kg	5960	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	69.8		%	37-123	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
2-Fluorobiphenyl (S)	67		%	45-105	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
2-Fluorophenol (S)	62.5		%	35-104	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Nitrobenzene-d5 (S)	62.8		%	41-110	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Phenol-d5 (S)	59.3		%	40-100	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
Terphenyl-d14 (S)	56.7		%	38-113	SW846 8270D	2/4/11	EGO	2/9/11 03:32	CGS	A1
WET CHEMISTRY										
Moisture	77.4		%	0.1	SM20-2540 G			2/3/11 14:20	KAK	A
Total Solids	22.6		%	0.1	SM20-2540 G			2/3/11 14:20	KAK	A

Sample Comments:

Anna G Milliken
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9890014 11-1476/1488/1489/1491

Lab ID: **9890014001** Date Collected: 2/16/2011 08:39 Matrix: Waste Water

Sample ID: **RC 11-1476** Date Received: 2/16/2011 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
bis(2-Ethylhexyl)phthalate	22.7		ug/L	14.2	EPA 625	2/22/11	GEC	2/24/11 00:59	CGS	B1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	73.1		%	38-134	EPA 625	2/22/11	GEC	2/24/11 00:59	CGS	B1
2-Fluorobiphenyl (S)	85.1		%	37-113	EPA 625	2/22/11	GEC	2/24/11 00:59	CGS	B1
2-Fluorophenol (S)	45.2		%	17-73	EPA 625	2/22/11	GEC	2/24/11 00:59	CGS	B1
Nitrobenzene-d5 (S)	108		%	37-124	EPA 625	2/22/11	GEC	2/24/11 00:59	CGS	B1
Phenol-d5 (S)	33.2		%	11-53	EPA 625	2/22/11	GEC	2/24/11 00:59	CGS	B1
Terphenyl-d14 (S)	93.1		%	33-125	EPA 625	2/22/11	GEC	2/24/11 00:59	CGS	B1
METALS										
Mercury, Total (XLow-level)	0.0002		mg/L	0.00007	EPA 245.1	2/25/11	MNP	2/25/11 09:45	MNP	A1

mple Comments:

This sample was analyzed at a dilution in the 625 analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder 9890014 11-1476/1488/1489/1491

Lab ID: **9890014002** Date Collected: 2/16/2011 09:20 Matrix: Waste Water
Sample ID: **FC 11-1488** Date Received: 2/16/2011 19:00

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
bis(2-Ethylhexyl)phthalate	4.0		ug/L	2.8	EPA 625	2/22/11	GEC	2/23/11 20:10	CGS	B1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	88.9		%	38-134	EPA 625	2/22/11	GEC	2/23/11 20:10	CGS	B1
2-Fluorobiphenyl (S)	81.8		%	37-113	EPA 625	2/22/11	GEC	2/23/11 20:10	CGS	B1
2-Fluorophenol (S)	43.8		%	17-73	EPA 625	2/22/11	GEC	2/23/11 20:10	CGS	B1
Nitrobenzene-d5 (S)	89.5		%	37-124	EPA 625	2/22/11	GEC	2/23/11 20:10	CGS	B1
Phenol-d5 (S)	29		%	11-53	EPA 625	2/22/11	GEC	2/23/11 20:10	CGS	B1
Terphenyl-d14 (S)	79.1		%	33-125	EPA 625	2/22/11	GEC	2/23/11 20:10	CGS	B1
METALS										
Mercury, Total (XLow-level)	ND		mg/L	0.00007	EPA 245.1	2/25/11	MNP	2/25/11 09:47	MNP	A1

Sample Comments:

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder 9895461 11-2408/11-2420

Lab ID: **9895461001** Date Collected: 3/16/2011 08:[illegible] Matrix: Waste Water

Sample ID: **RAW 11-2408** Date Received: 3/18/2011 19:11

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/L	5.7	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Acenaphthylene	ND		ug/L	5.7	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Anthracene	ND		ug/L	5.7	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Benzidine	ND	1	ug/L	113	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Benzo(a)anthracene	ND		ug/L	5.7	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Benzo(a)pyrene	ND		ug/L	5.7	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Benzo(b)fluoranthene	ND		ug/L	5.7	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Benzo(g,h,i)perylene	ND		ug/L	5.7	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Benzo(k)fluoranthene	ND		ug/L	5.7	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
4-Bromophenyl-phenylether	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Butylbenzylphthalate	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
bis(2-Chloroethoxy)methane	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
bis(2-Chloroethyl)ether	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
bis(2-Chloroisopropyl)ether	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
hloronaphthalene	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
4-Chlorophenyl-phenylether	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Chrysene	ND		ug/L	5.7	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Di-n-Butylphthalate	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Di-n-Octylphthalate	ND		ug/L	30.2	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Dibenzo(a,h)anthracene	ND		ug/L	7.5	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
3,3-Dichlorobenzidine	ND		ug/L	60.4	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Diethylphthalate	ND		ug/L	30.2	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Dimethylphthalate	ND		ug/L	30.2	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
2,4-Dinitrotoluene	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
2,6-Dinitrotoluene	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
1,2-Diphenylhydrazine	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
bis(2-Ethylhexyl)phthalate	26.8		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Fluoranthene	ND		ug/L	5.7	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Fluorene	ND		ug/L	5.7	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Hexachlorobenzene	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Hexachlorobutadiene	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Hexachlorocyclopentadiene	ND		ug/L	30.2	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Hexachloroethane	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Indeno(1,2,3-cd)pyrene	ND		ug/L	5.7	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Isophorone	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Naphthalene	ND		ug/L	5.7	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Nitrobenzene	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
N-Nitrosodimethylamine	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
N-Nitroso-di-n-propylamine	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
N-Nitrosodiphenylamine	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1

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ANALYTICAL RESULTS

Workorder 9895461 11-2408/11-2420

Lab ID: **9895461001** Date Collected: 3/16/2011 08:12 Matrix: Waste Water

Sample ID: **RAW 11-2408** Date Received: 3/18/2011 19:11

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Phenanthrene	ND		ug/L	5.7	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Pyrene	ND		ug/L	5.7	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
1,2,4-Trichlorobenzene	ND		ug/L	11.3	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	83		%	38-134	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
2-Fluorobiphenyl (S)	76.8		%	37-113	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
2-Fluorophenol (S)	52.7		%	17-73	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Nitrobenzene-d5 (S)	81		%	37-124	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Phenol-d5 (S)	28		%	11-53	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1
Terphenyl-d14 (S)	148	2	%	33-125	EPA 625	3/22/11	LEH	3/25/11 17:49	DHF	A1

Sample Comments:

This sample was analyzed at a dilution in the semivolatile GC/MS analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

One or more of the GCMS semi-volatile internal standards were recovered at <50%. The sample was analyzed twice with similar results indicating a sample matrix interference.

Anna G Milliken
Technical Manager

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ANALYTICAL RESULTS

Workorder 9895461 11-2408/11-2420

Lab ID: **9895461002** Date Collected: 3/16/2011 08:55 Matrix: Waste Water

Sample ID: **FINAL 11-2420** Date Received: 3/18/2011 19:11

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/L	1.4	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Acenaphthylene	ND		ug/L	1.4	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Anthracene	ND		ug/L	1.4	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Benzidine	ND	1	ug/L	28.3	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Benzo(a)anthracene	ND		ug/L	1.4	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Benzo(a)pyrene	ND		ug/L	1.4	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Benzo(b)fluoranthene	ND		ug/L	1.4	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Benzo(g,h,i)perylene	ND		ug/L	1.4	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Benzo(k)fluoranthene	ND		ug/L	1.4	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
4-Bromophenyl-phenylether	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Butylbenzylphthalate	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
bis(2-Chloroethoxy)methane	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
bis(2-Chloroethyl)ether	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
bis(2-Chloroisopropyl)ether	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
[illegible]loronaphthalene	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
4-Chlorophenyl-phenylether	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Chrysene	ND		ug/L	1.4	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Di-n-Butylphthalate	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Di-n-Octylphthalate	ND		ug/L	7.5	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Dibenzo(a,h)anthracene	ND		ug/L	1.9	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
3,3-Dichlorobenzidine	ND		ug/L	15.1	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Diethylphthalate	ND		ug/L	7.5	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Dimethylphthalate	ND		ug/L	7.5	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
2,4-Dinitrotoluene	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
2,6-Dinitrotoluene	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
1,2-Diphenylhydrazine	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
bis(2-Ethylhexyl)phthalate	6.7		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Fluoranthene	ND		ug/L	1.4	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Fluorene	ND		ug/L	1.4	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Hexachlorobenzene	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Hexachlorobutadiene	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Hexachlorocyclopentadiene	ND		ug/L	7.5	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Hexachloroethane	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Indeno(1,2,3-cd)pyrene	ND		ug/L	1.4	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Isophorone	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Naphthalene	ND		ug/L	1.4	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Nitrobenzene	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
N-Nitrosodimethylamine	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
N-Nitroso-di-n-propylamine	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
N-Nitrosodiphenylamine	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1

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ANALYTICAL RESULTS

Workorder 9895461 11-2408/11-2420

Lab ID: **9895461002** Date Collected: 3/16/2011 08:55 Matrix: Waste Water

Sample ID: **FINAL 11-2420** Date Received: 3/18/2011 19:11

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Phenanthrene	ND		ug/L	1.4	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Pyrene	ND		ug/L	1.4	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
1,2,4-Trichlorobenzene	ND		ug/L	2.8	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	78.5		%	38-134	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
2-Fluorobiphenyl (S)	66.4		%	37-113	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
2-Fluorophenol (S)	43.3		%	17-73	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Nitrobenzene-d5 (S)	72.3		%	37-124	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Phenol-d5 (S)	27		%	11-53	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1
Terphenyl-d14 (S)	131	3	%	33-125	EPA 625	3/22/11	LEH	3/25/11 15:01	DHF	A1

Sample Comments:

Anna G Milliken
Technical Manager

Attention: Amy L. Morriss
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Date of Report: 04/18/11
Project Number: 1146728
Lab ID: 124-11-0012724
Date Collected: 04/05/11 08:50
Collected By: Client
Date Received: 04/06/11 14:50

Sample Desc: 11-3027 Raw

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	04/12	17:59	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	04/12	07:00	MEB

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Date of Report: 04/18/11
Project Number: 1146728
Lab ID: 124-11-0012725
Date Collected: 04/05/11 09:37
Collected By: Client
Date Received: 04/06/11 14:50

Sample Desc: 11-3039 Final

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	04/12	17:59	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	04/12	07:00	MEB

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Date of Report: 04/26/11
Project Number: 1146985
Lab ID: 124-11-0013140
Date Collected: 04/06/11 08:30
Collected By: Client
Date Received: 04/08/11 14:20

Sample Desc: Belt Press Sludge 11-3099

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	mg/kg	10	20	SW846 8270	04/20	06:56	MEB
EXTRACTION								
SW846 8270 Extraction	Complete		0	0	SW846 8270	04/18	14:00	MEB

COMMENTS

D1 The elevated reporting limits for the semi-volatiles was due to sample matrix interference.

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Date of Report: 05/03/11
Project Number: 1147559
Lab ID: 124-11-0014678
Date Collected: 04/19/11 08:45
Collected By: CLIENT
Date Received: 04/20/11 15:25

Sample Desc: Raw 11-3475 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Mercury, Total	0.0002	mg/l	.0001	1	EPA 245.1	04/27	11:55	JAW
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	04/29	01:09	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	04/21	08:00	MEB

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Date of Report: 04/29/11
Project Number: 1147559
Lab ID: 124-11-0014679
Date Collected: 04/19/11 08:45
Collected By: Client
Date Received: 04/20/11 15:25

Sample Desc: Final 11-3488 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	04/27	11:55	JAW
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	04/29	01:09	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	04/21	08:00	MEB

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Date of Report: 05/19/11
Project Number: 1149367
Lab ID: 124-11-0016456
Date Collected: 05/03/11 09:08
Collected By: Client
Date Received: 05/04/11 15:05

Sample Desc: Raw 11-3902 (Lab, Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Mercury, Total	0.0003	mg/l	.0001	1	EPA 245.1	05/11	11:00	JAW
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	05/10	11:09	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	05/10	07:00	KLE

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Date of Report: 05/19/11
Project Number: 1149367
Lab ID: 124-11-0016457
Date Collected: 05/03/11 09:55
Collected By: Client
Date Received: 05/04/11 15:05

Sample Desc: Final 11-3918 (Lab, Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	05/11	11:00	JAW
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	05/10	11:09	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	05/10	07:00	KLE

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Date of Report: 06/17/11
Project Number: 1152415
Lab ID: 124-11-0021383
Date Collected: 06/07/11 09:25
Collected By: Client
Date Received: 06/08/11 15:15

Sample Desc: Raw 11-5044 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	7.8	mg/l	.5	10	SM 4500P-E	06/10	08:10	ALD
NITROGENS								
Nitrogen, Total Kjeldahl	58	mg/l	25	5	EPA 351.2	06/09	13:19	JCL
INORGANIC								
TOTAL								
Mercury, Total	0.0001	mg/l	.0001	1	EPA 245.1	06/15	11:38	JAW
ORGANIC								
SE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	06/14	07:00	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	06/14	07:00	KLE

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Technical Director

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Date of Report: 06/17/11
Project Number: 1152415
Lab ID: 124-11-0021389
Date Collected: 06/07/11 09:56
Collected By: Client
Date Received: 06/08/11 15:15

Sample Desc: FC 11-5057 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	06/15	11:38	JAW
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	06/14	07:00	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	06/14	07:00	KLE

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Date of Report: 06/17/11
Project Number: 1152416
Lab ID: 0124-11-0021381
Account Rep: Richard Wolfe
Date Received: 06/08/11
Date Collected: 06/08/11
Time Collected: 10:30
Collected By: Client

Sample Description: Biosolids 11-5059 (Composite)

* Results expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
CHEMISTRY							
RESIDUES							
Total Solids	20.0	%	1	SM 2540G	06/13	12:30	eps
ORGANIC							
BASE NEUTRALS							
Bis(2-Ethylhexyl) phthalate	<25.0	* mg/kg	25.0	SW846 8270	06/15	06:30	meb
EXTRACTION							
SW846 8270 Extraction	Complete		0	SW846 8270	06/15	06:30	kle

ENTS:
1 - The elevated reporting limits for the semi-volatiles was due to sample matrix interference.

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
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Richard Wolfe
Technical Director

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Date of Report: 07/01/11
Project Number: 1153160
Lab ID: 124-11-0023643
Date Collected: 06/21/11 09:02
Collected By: Client
Date Received: 06/22/11 15:25

Sample Desc: RC 11-5486 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	9.0	mg/l	.5	10	SM 4500P-E	06/23	07:00	ALD
NITROGENS								
Nitrogen, Total Kjeldahl	55	mg/l	25	5	EPA 351.2	06/23	15:20	JCL
INORGANIC								
TOTAL								
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	06/29	11:08	JAW
ORGANIC								
SE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	06/30	10:47	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	06/28	08:00	MEB

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Date of Report: 07/01/11
Project Number: 1153160
Lab ID: 124-11-0023645
Date Collected: 06/21/11 09:32
Collected By: Client
Date Received: 06/22/11 15:25

Sample Desc: FC 11-5497 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	06/29	11:08	JAW
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	06/28	18:04	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	06/23	07:30	MEB

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Date of Report: 07/15/11
Project Number: 1155056
Lab ID: 124-11-0025722
Date Collected: 07/05/11 08:55
Collected By: Client
Date Received: 07/06/11 15:10

Sample Desc: RC 11-5915 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	07/12	12:40	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	07/11	08:30	MEB

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Date of Report: 07/15/11
Project Number: 1155056
Lab ID: 124-11-0025721
Date Collected: 07/05/11 09:40
Collected By: Client
Date Received: 07/06/11 15:10

Sample Desc: FC 11-5925 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	07/12	12:40	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	07/11	08:30	MEB

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Date of Report: 08/12/11
Project Number: 1157863
Lab ID: 124-11-0030002
Date Collected: 08/02/11 08:17
Collected By: Client
Date Received: 08/03/11 15:05

Sample Desc: Raw 11-6829 (Composite, B2EHP)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	08/10	08:00	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	08/08	08:00	JLV

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Date of Report: 08/12/11
Project Number: 1157863
Lab ID: 124-11-0030011
Date Collected: 08/02/11 09:03
Collected By: Client
Date Received: 08/03/11 15:05

Sample Desc: Final 11-6841 (Composite, B2EHP)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	08/10	08:00	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	08/08	08:00	JLV

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Date of Report: 08/23/11
Project Number: 1157859
Lab ID: 0124-11-0029994
Account Rep: Richard Wolfe
Date Received: 08/03/11
Date Collected: 08/02/11
Time Collected: 08:15
Collected By: Client

Sample Description: Belt Press Sludge 11-6825

* Results expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
CHEMISTRY							
RESIDUES							
Total Solids	20.3	%	1	SM 2540G	08/04	16:30	eps
ORGANIC							
BASE NEUTRALS							
Bis(2-Ethylhexyl) phthalate	<123	* mg/kg	123	SW846 8270	08/11	03:14	meb
EXTRACTION							
SW846 8270 Extraction	Complete		0	SW846 8270	08/10	06:30	kle

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Date of Report: 08/25/11
Project Number: 1158833
Lab ID: 124-11-0032307
Date Collected: 08/16/11 08:27
Collected By: CLIENT
Date Received: 08/17/11 15:25

Sample Desc: Influent 11-7287 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	08/19	12:07	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	08/18	06:30	KLE

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Date of Report: 08/25/11
Project Number: 1158833
Lab ID: 124-11-0032314
Date Collected: 08/16/11 09:02
Collected By: CLIENT
Date Received: 08/17/11 15:25

Sample Desc: Effluent 11-7299 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	08/19	12:07	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	08/18	06:30	KLE

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Date of Report: 09/15/11
Project Number: 1161282
Lab ID: 124-11-0035380
Date Collected: 09/06/11 08:38
Collected By: CLIENT
Date Received: 09/07/11 15:25

Sample Desc: 11-7963 RC

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Mercury, Total	0.0001	mg/l	.0001	1	EPA 245.1	09/14	10:20	JAW
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	09/14	15:24	MEB

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Sample Desc: 11-7959 Belt Press Biosolids

Date of Report: 09/15/11
Project Number: 1161280
Lab ID: 124-11-0035378
Date Collected: 09/06/11 08:45
Collected By: CLIENT
Date Received: 09/07/11 15:25

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	09/14	15:24	MEB

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Sample Desc: Raw 11-8388 (Composite)

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Date of Report: 10/04/11
Project Number: 1162150
Lab ID: 124-11-0037633
Date Collected: 09/20/11 08:32
Collected By: CLIENT
Date Received: 09/21/11 15:25

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	09/27	13:18	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	09/26	07:00	JLV

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Date of Report: 10/04/11
Project Number: 1162150
Lab ID: 124-11-0037634
Date Collected: 09/20/11 09:06
Collected By: CLIENT
Date Received: 09/21/11 15:25

Sample Desc: Final 11-8400 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	09/27	13:18	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	09/26	07:00	JLV

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Date of Report: 10/17/11
Project Number: 1164144
Lab ID: 124-11-0040061
Date Collected: 10/04/11 08:58
Collected By: CLIENT
Date Received: 10/05/11 15:10

Sample Desc: 11-8814 Raw (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	10/14	14:35	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	10/07	07:00	JLV

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Date of Report: 10/17/11
Project Number: 1164144
Lab ID: 124-11-0040062
Date Collected: 10/04/11 09:40
Collected By: CLIENT
Date Received: 10/05/11 15:10

Sample Desc: 11-8826 Final (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	10/14	14:35	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	10/07	07:00	JLV

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Date of Report: 10/24/11
Project Number: 1164143
Lab ID: 124-11-0040060
Date Collected: 10/04/11 08:30
Collected By: Client
Date Received: 10/05/11 15:10

Sample Desc: 11-8792 Belt Press Sludge (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
RESIDUES								
Total Solids	19.7	%	1	1	SM 2540G	10/06	14:10	EPS
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<5	mg/kg	5	10	SW846 8270	10/18	12:26	MEB
EXTRACTION								
SW846 8270 Extraction	complete	mg/l	1	1	SW846 8270	10/14	07:00	JLV

COMMENTS

01 The elevated reporting limits for the semi-volatiles was due to sample matrix interference.

02 The sw846 8270 method surrogates were not added to the sample,Blank,QC and QC duplicate before the extraction.

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Date of Report: 10/24/11
Project Number: 1164937
Lab ID: 124-11-0042059
Date Collected: 10/18/11 07:19
Collected By: Client
Date Received: 10/19/11 15:30

Sample Desc: RC 11-9265 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Mercury, Total	0.0001	mg/l	.0001	1	EPA 245.1	10/20	10:40	RLS
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	10/21	12:30	MEB
EXTRACTION								
EPA 625 Extraction	complete	mg/l	1	1	EPA 625	10/20	07:00	JLV

COMMENTS

01 The epa 625 method surrogate 2,4,6-Tribromophenol had low recovery in the sample,QC and Blank.

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Date of Report: 10/25/11
Project Number: 1164937
Lab ID: 124-11-0042058
Date Collected: 10/18/11 08:50
Collected By: CLIENT
Date Received: 10/19/11 15:30

Sample Desc: FC 11-9277 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	10/20	10:40	RLS
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	10/21	12:30	MEB
EXTRACTION								
EPA 625 Extraction	complete	mg/l	1	1	EPA 625	10/20	07:00	JLV

COMMENTS

01 The epa 625 method surrogate 2,4,6-Tribromophenol had low recovery in the sample,Blank and QC.

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Date of Report: 11/09/11
Project Number: 1166691
Lab ID: 124-11-0043911
Date Collected: 11/01/11 09:00
Collected By: Client
Date Received: 11/02/11 15:20

Sample Desc: RC 11-9720 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	11/08	10:46	JAW
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	11/04	13:39	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	11/04	07:00	JLV

COMMENTS

01 One or more semi-volatile compounds had high recovery in the CCV and the Qc but none of these compounds were detected in the sample above laboratory's reporting limit.

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Date of Report: 11/09/11
Project Number: 1166691
Lab ID: 124-11-0043910
Date Collected: 11/01/11 09:35
Collected By: Client
Date Received: 11/02/11 15:20

Sample Desc: FC (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	11/08	10:46	JAW
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	11/04	13:39	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	11/04	07:00	JLV

COMMENTS

01 One or more semi-volatile compounds had high recovery in the CCV and the QC but none of these compounds were detected in this sample above the laboratory's reporting limit.

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Date of Report: 11/23/11
Project Number: 1167592
Lab ID: 124-11-0046031
Date Collected: 11/15/11 09:00
Collected By: Client
Date Received: 11/16/11 15:35

Sample Desc: 11-10167 Raw

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Mercury, Total	0.0003	mg/l	.0001	1	EPA 245.1	11/22	10:47	JAW
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	11/17	18:46	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	11/17	07:00	MEB

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Date of Report: 11/23/11
Project Number: 1167590
Lab ID: 124-11-0046030
Date Collected: 11/15/11 09:31
Collected By: Client
Date Received: 11/16/11 15:35

Sample Desc: 11-10180 Final

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	11/22	10:47	JAW
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	11/17	18:46	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	11/17	07:00	MEB

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Date of Report: 12/19/11
Project Number: 1169719
Lab ID: 124-11-0048614
Date Collected: 12/06/11 09:35
Collected By: Client
Date Received: 12/07/11 15:10

Sample Desc: RC 11-10834 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Mercury, Total	0.0003	mg/l	.0001	1	EPA 245.1	12/16	11:30	JAW
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	10	ug/l	10	2	EPA 625	12/12	11:42	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	12/09	07:00	KLE

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Reading PA 19601

Date of Report: 12/19/11
Project Number: 1169719
Lab ID: 124-11-0048613
Date Collected: 12/06/11 09:17
Collected By: Client
Date Received: 12/07/11 15:10

Sample Desc: FC 11-10846 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	12/16	11:30	JAW
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	12/12	11:42	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	12/09	07:00	KLE

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

CERTIFICATE OF ANALYSIS
M.J. Reider Associates, Inc.

Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 12/19/11
Project Number: 1169718
Lab ID: 0124-11-0048612
Account Rep: Richard Wolfe
Date Received: 12/07/11
Date Collected: 12/06/11
Time Collected: 10:22
Collected By: Client

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Sample Description: 11-10847 Belt Press Sludge

* Results expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
CHEMISTRY							
RESIDUES							
Total Solids	17.4	%	1	SM 2540G	12/12	18:00	jxs
ORGANIC							
BASE NEUTRALS							
Bis(2-Ethylhexyl) phthalate	<5.75	* mg/kg	5.75	SW846 8270	12/16	09:12	meb
EXTRACTION							
SW846 8270 Extraction	Complete		0	SW846 8270	12/15	07:00	meb

CC ITS:
1 - The elevated reporting limits for the semi-volatiles was due to sample matrix interference.

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:

Richard Wolfe
Technical Director

ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 12/29/11
Lab ID: 124-11-0050547
Date Collected: 12/20/11 09:17
Collected By: CLIENT
Date Received: 12/21/11 15:05

Sample Desc: Raw 11-11272 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	12/28	01:22	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	12/23	06:30	MEB

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 12/29/11
Lab ID: 124-11-0050548
Date Collected: 12/20/11 09:47
Collected By: CLIENT
Date Received: 12/21/11 15:05

Sample Desc: Final 11-11284 (Composite)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<10	ug/l	10	1	EPA 625	12/28	01:22	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	12/23	06:30	MEB

COMMENTS

01 The epa 625 method Internal Standard Chrysene-d12 was low in the sample.

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
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	Influent		
	TKN	Total P	Ortho P
DATE	mg/L	mg/L	mg/L
3/2/2011		9.20	
3/6/2011	39.60	4.40	1.60
3/7/2011	53.10	5.50	1.30
3/8/2011	90.80	5.10	2.60
3/9/2011	23.20	2.10	0.87
Average	51.68	5.26	1.59
5/9/2011		9.20	
5/19/2011	41.0	6.0	3.82
5/24/2011	57.0	8.2	1.94
5/26/2011	52.0	10.8	
5/27/2011			6.00
5/31/2011	50.0	8.8	
Average	50.0	8.6	3.9
6/1/2011			3.50
6/2/2011	44.0	9.6	
6/3/2011			5.50
6/7/2011	58.0	7.8	
6/8/2011			3.50
6/9/2011	59.0	10.4	
6/10/2011			4.82
6/14/2011	57.0	13.0	
6/15/2011			3.89
6/21/2011	55.0	9.0	
6/22/2011			4.34
6/28/2011	56.0	8.3	
6/29/2011			4.04
Average	54.8	9.7	4.2
7/5/2011	70.0	10.2	
7/6/2011			
7/12/2011	65.0	8.2	
7/13/2011			4.60
7/19/2011	55.0	13.2	
7/20/2011			3.52
7/26/2011	58.0	10.6	
7/27/2011			3.20
Average	62.0	10.6	3.8
8/2/2011	50.0	7.6	
8/3/2011			6.50
8/4/2011			
8/16/2011	66.0	8.3	
8/17/2011			3.03
8/30/2011	45.0	5.7	
8/31/2011			4.00
Average	53.7	7.2	4.5
9/27/2011	46.5	6.8	
9/28/2011			2.70
Average	46.5	6.8	2.7
10/11/2011	54.0	6.0	
10/12/2011			2.53
Average	54.0	6.0	2.5
11/8/2011	45.0	7.3	
11/9/2011			3.76
Average	45.0	7.3	3.8
12/20/2011	60.0	18.3	
12/21/2011			3.25
Average	60.0	18.3	3.3

Pennsylvania Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

Southcentral Regional Office

717-705-4707
FAX - 717-705-4760

CMJ
KJE
DAB
RBJ
JCH
Mooney
Hydro
Speck
File

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CERTIFIED MAIL NO. 7002 2030 0007 9114 5180

Ms. Deborah Hoag, Environmental Division Manager
City of Reading
Environmental Division
815 Washington Street
Reading, PA 19601-3690

Current amended permit! Mercury is only parameter amended.

Re: Sewage
COR STP
NPDES Permit No. PA 0026549
Reading City, Berks County

Dear Ms. Hoag:

Your amendment is enclosed. Read the permit and the special conditions carefully.

A Discharge Monitoring Report (DMR) is included. The master DMR will be prepared and distributed by the U.S. Environmental Protection Agency (EPA) in the near future. Use the enclosed DMR Form until you receive a master from EPA. The reporting forms must be submitted to the Department and the EPA Regional Office as instructed in the permit and the enclosed Instruction Sheet.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa. C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, PO Box 8457, Harrisburg, PA 17105-8457, 717-787-3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800-654-5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717-787-3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.

IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717-787-3483) FOR MORE INFORMATION.

If you have any questions, please call Ms. Marybeth Luttenberger of the Permits Section at 717-705-4815.

Sincerely,

Raymond P. Zomok, P.E.
Chief, Soils & Waterways Section
Water Management Program

Enclosures

cc: U.S. Environmental Protection Agency

Pennsylvania Department of Environmental Protection
WATER MANAGEMENT PROGRAM

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
NPDES PERMIT NO. PA 0026549
Amendment No. 1

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 et seq. (the "Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 et seq.,

City of Reading
815 Washington Street
Reading, PA 19601-3960

is hereby authorized to discharge from a facility located in Reading City, Berks County to Schuylkill River in Watershed 3-C in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts A, B, and C hereof.

THIS PERMIT SHALL BECOME EFFECTIVE ON MAY 1, 2001

AND EXPIRE AT MIDNIGHT, MAY 1, 2006

The authority granted by this permit is subject to the following further qualifications:

1. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.

2. Failure to comply with the terms or conditions of this permit is grounds for enforcement action; for permit termination, revocation and reissuance or modification; or for denial of a permit renewal application.

3. Application for renewal of this permit, or notification of intent to cease discharging by the expiration date, must be submitted to the Department at least 180 days prior to the above expiration date (unless permission has been granted by the Department for submission at a later date), using the appropriate NPDES Permit Application Form. In the event that a timely and complete application for renewal has been submitted and the Department is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions to this permit will be automatically continued and will remain fully effective and enforceable pending the grant or denial of the application for permit renewal.

4. This permit does not constitute authorization to construct or make modifications to wastewater treatment facilities necessary to meet the terms and conditions of this permit.

PERMIT ISSUED: April 10, 2001

BY: _____
Raymond P. Zomok, P.E.
Acting Program Manager
Southcentral Regional Office

PERMIT AMENDED: SEP - 1 2004

PART A

LAT: 40°18'13"
LONG: 75°55'13"

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Outfall 001, which receives wastewater from the wastewater treatment plant.

1. Numbers in parentheses ( ) refer to Footnotes/Additional Requirements/Information on page 3.

2. Samples taken in compliance with the monitoring requirements shall be taken at the following location(s):

   a. Composite samples may be taken before or after disinfection.

   b. Grab samples shall be taken after disinfection.

DISCHARGE LIMITATIONS[1]								MONITORING REQUIREMENTS	
	Mass Units (lbs/day)[3]			Concentrations (mg/l)[4]				[5]	
Discharge[2] Parameter	Average Monthly	Average Weekly	Maximum Daily	Average Monthly	Average Weekly	Maximum Daily	Inst. Maximum	Monitoring Frequency	Sample Type
Flow (mgd)	Monitor & Report	XXX	Monitor & Report	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	XXX	From 6.0 to 9.0 inclusive				1/day	Grab
D.O.	XXX	XXX	XXX	Minimum of 5.0 mg/l at all times				1/day	Grab
Total Residual Chlorine	XXX	XXX	XXX	0.40	XXX	XXX	1.31	1/shift	Grab
Total Suspended Solids	7,130	10,696	XXX	30	45	XXX	60	1/day	24-hour comp
$CBOD_5$ (5/1 to 10/31)	3,336	5,004	XXX	20	30	XXX	40	1/day	24-hour comp
$CBOD_5$ (11/1 to 4/30)	4,170	6,255	XXX	25	40	XXX	50	1/day	24-hour comp
NH_3-N (5/1 to 10/31)	1,000	XXX	XXX	6.0	XXX	XXX	12	1/day	24-hour comp
NH_3-N (11/1 to 4/30)	3,000	XXX	XXX	18	XXX	XXX	24	1/day	24-hour comp
Color	XXX	XXX	XXX	186	XXX	XXX	465	1/day	24-hour comp
Fecal Coliform[6] (5/1 to 9/30)	XXX	XXX	XXX	200	XXX	XXX	XXX	1/day	Grab
Fecal Coliform[6] (10/1 to 4/30)	XXX	XXX	XXX	10,000	XXX	XXX	XXX	1/day	Grab
Total Mercury	0.055	XXX	XXX	0.00023	XXX	XXX	0.00046	1/week	24-hour comp